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***** Welcome to STN International *****

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01 ChemPort single article sales feature unavailable
NEWS 3 FEB 02 Simultaneous left and right truncation (SLART) added
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 4 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 5 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 6 FEB 10 COMPENDEX reloaded and enhanced
NEWS 7 FEB 11 WTEXTILES reloaded and enhanced
NEWS 8 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS
patent records provide insights into related prior
art
NEWS 9 FEB 19 Increase the precision of your patent queries -- use
terms from the IPC Thesaurus, Version 2009.01
NEWS 10 FEB 23 Several formats for image display and print options
discontinued in USPATFULL and USPAT2
NEWS 11 FEB 23 MEDLINE now offers more precise author group fields
and 2009 MeSH terms
NEWS 12 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
NEWS 13 FEB 23 Three million new patent records blast AEROSPACE into
STN patent clusters
NEWS 14 FEB 25 USGENE enhanced with patent family and legal status
display data from INPADOCDB
NEWS 15 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display
formats
NEWS 16 MAR 11 EPFULL backfile enhanced with additional full-text
applications and grants
NEWS 17 MAR 11 ESBIOBASE reloaded and enhanced
NEWS 18 MAR 20 CAS databases on STN enhanced with new super role
for nanomaterial substances
NEWS 19 MAR 23 CA/CAPLUS enhanced with more than 250,000 patent
equivalents from China
NEWS 20 MAR 30 IMSPATENTS reloaded and enhanced
NEWS 21 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 22 APR 07 STN is raising the limits on saved answers
NEWS 23 APR 24 CA/CAPLUS now has more comprehensive patent assignee
information
NEWS 24 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information
NEWS 25 APR 28 CAS patent authority coverage expanded
NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 27 APR 28 Limits doubled for structure searching in CAS
REGISTRY

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,

AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:23:56 ON 05 MAY 2009

=> FILE REG
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 2.86 2.86

FILE 'REGISTRY' ENTERED AT 11:31:41 ON 05 MAY 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAY 2009 HIGHEST RN 1141929-94-3
DICTIONARY FILE UPDATES: 3 MAY 2009 HIGHEST RN 1141929-94-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> E ascorbic acid 2-glucoside/CN
E1 1 ASCORBIC ACID 2,5,6-TRISULFATE SODIUM SALT/CN
E2 1 ASCORBIC ACID 2-(4-VINYLBENZOATE)/CN
E3 0 --> ASCORBIC ACID 2-GLUCOSIDE/CN
E4 1 ASCORBIC ACID 2-PHOSPHATE/CN
E5 1 ASCORBIC ACID 2-PHOSPHATE MAGNESIUM SALT/CN
E6 1 ASCORBIC ACID 2-PYROPHOSPHATE/CN
E7 1 ASCORBIC ACID 2-PYROPHOSPHATE SODIUM SALT/CN
E8 1 ASCORBIC ACID 2-SULFATE/CN
E9 1 ASCORBIC ACID 2-SULFATE DEHYDROGENASE/CN
E10 1 ASCORBIC ACID 2-SULFATE DIPOTASSIUM SALT/CN
E11 1 ASCORBIC ACID 2-SULFATE SULFOHYDROLASE/CN
E12 1 ASCORBIC ACID 2-TRIPHOSPHATE/CN

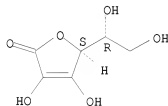
=> S ascorbic acid
 4589 ASCORBIC
 11774784 ACID
 8376 ACIDS
 11780813 ACID
 (ACID OR ACIDS)
 L1 4567 ASCORBIC ACID
 (ASCORBIC(W)ACID)

=> S ascorbic acid/CN
 L2 2 ASCORBIC ACID/CN

=> D L2 1-2

L2 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 62624-30-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Ascorbic acid (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN DL-Ascorbic acid
 FS STEREOSEARCH
 MF C6 H8 O6
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, GMELIN*, HSDB*, MEDLINE, PIRA,
 PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

537 REFERENCES IN FILE CA (1907 TO DATE)
 17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 539 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 50-81-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN L-Ascorbic acid (CA INDEX NAME)
 OTHER NAMES:
 CN (+)-Ascorbic acid
 CN 100M
 CN 3-keto-L-Gulofuranolactone
 CN 3-Oxo-L-gulofuranolactone
 CN Adenex
 CN Allercorb
 CN Antiscorbic vitamin
 CN Antiscorbic vitamin
 CN Antiscorbic vitamin

CN Ascoltin
 CN Ascorbajen
 CN Ascorbic acid
 CN Ascorbicap
 CN Ascorbutina
 CN Ascorell
 CN Ascorin
 CN Ascortéal
 CN Ascorvit
 CN C-L 6/PW
 CN C-Quin
 CN C-Vimin
 CN Cantan
 CN Cantaxin
 CN Catavin C
 CN Ce-Mi-Lin
 CN Ce-Vi-Sol
 CN Cebicure
 CN Cebion
 CN Cebione
 CN Cecon
 CN Cegiolan
 CN Ceglion
 CN Ceklin
 CN Celaskon
 CN Celin
 CN Cell C
 CN Cemagyl
 CN Cenetone
 CN Cereon
 CN Cergona
 CN Cescorbat
 CN Cetamid
 CN Cetane
 CN Cetane-Caps TC
 CN Cetebe
 CN Cetemican
 CN Cevalin
 CN Cevatine
 CN Cevex
 CN Cevimin
 CN Cevital

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

FS STEREOSEARCH

DR 882690-91-7, 884381-69-5, 885512-24-3, 1018124-03-2, 623158-95-2,
 56533-05-2, 57304-74-2, 57606-40-3, 56172-55-5, 129940-97-2, 14536-17-5,
 50976-75-5, 154170-90-8, 89924-69-6, 88845-26-5, 30208-61-8, 259133-78-3

MF C6 H8 O6

CI COM

Supplier: Intelbioscan, Ltd.

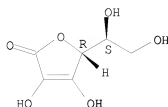
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUG, EMBASE, ENCOMPLIT,
 ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT,
 IFIUDB, IMSCSEARCH, IMSPRODUCT, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NAPRALERT, PHAR, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE,
 TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

94955 REFERENCES IN FILE CA (1907 TO DATE)
2102 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
95183 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E adenosine 5'-monophosphate
MISMATCHED QUOTE IN EXPAND TERM
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

=> E adenosine monophosphate/CN
E1 1 ADENOSINE L-CYSTEINE HYDROCHLORIDE MIXTURE/CN
E2 2 ADENOSINE MONOPHOSPHATASE/CN
E3 1 --> ADENOSINE MONOPHOSPHATE/CN
E4 1 ADENOSINE MONOPHOSPHATE DEAMINASE/CN
E5 1 ADENOSINE MONOPHOSPHATE DEAMINASE (HUMAN ISOFORM E GENE AMPD
3 FRAGMENT)/CN
E6 1 ADENOSINE MONOPHOSPHATE DEAMINASE (HUMAN ISOFORM E GENE AMPD
3)/CN
E7 1 ADENOSINE MONOPHOSPHATE DEAMINASE 1 (SUS SCROFA DOMESTICA GE
NE AMPD1 FRAGMENT)/CN
E8 1 ADENOSINE MONOPHOSPHATE DEAMINASE 1 ISOFORM M (SUS SCROFA DO
MESTICA GENE AMPD1)/CN
E9 1 ADENOSINE MONOPHOSPHATE DEAMINASE 2 (ISOFORM L) (HUMAN CLONE
MGC:12857 IMAGE:4101667)/CN
E10 1 ADENOSINE MONOPHOSPHATE DEAMINASE 2 (ISOFORM L) (MOUSE STRAI
N C57BL/6 CLONE MGC:61170 IMAGE:6812571)/CN
E11 1 ADENOSINE MONOPHOSPHATE DEAMINASE 2 (ISOFORM L), ISOFORM 2 (
HUMAN CLONE MGC:12857 IMAGE:4101667)/CN
E12 1 ADENOSINE MONOPHOSPHATE DEAMINASE 2 (ISOFORM L), ISOFORM 2 (
HUMAN CLONE MGC:88800 IMAGE:4130690)/CN

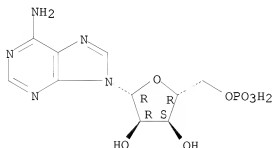
=> S E3
L3 1 "ADENOSINE MONOPHOSPHATE"/CN

=> D L3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 61-19-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 5'-Adenylic acid (CA INDEX NAME)
OTHER NAMES:
CN 5'-AMP
CN Adenosine 5'-(dihydrogen phosphate)
CN Adenosine 5'-monophosphate
CN Adenosine 5'-phosphate
CN Adenosine 5'-phosphoric acid

CN Adenosine monophosphate
 CN Adenosine phosphate
 CN Adenosine-5'-monophosphoric acid
 CN Adenosine-5-monophosphoric acid
 CN Adenovite
 CN Adenylic acid
 CN AMP
 CN AMP (nucleotide)
 CN Cardiomone
 CN Lycedan
 CN My-B-Den
 CN NSC 20264
 CN Phosaden
 CN Phosphaden
 CN Phosphataside
 FS STEREOSEARCH
 DR 697214-87-2, 162756-82-3, 53624-78-5, 67583-85-1, 47286-65-7, 47287-97-8
 MF C10 H14 N5 O7 P
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN,
 CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT,
 IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS*,
 SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19209 REFERENCES IN FILE CA (1907 TO DATE)
 634 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 19237 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E adenosine 5/CN

E1	1	ADENOSINE 3'-A-NAPHTHYLPHOSPHATE/CN
E2	1	ADENOSINE 3-PHENYLPHOSPHONATE/CN
E3	0 -->	ADENOSINE 5/CN
E4	1	ADENOSINE 5',3'-PHOSPHOURIDINE/CN
E5	1	ADENOSINE 5'-(A,B-METHYLENE) DIPHOSPHATE/CN
E6	1	ADENOSINE 5'-(A,B-METHYLENETRIPHOSPHATE)/CN
E7	1	ADENOSINE 5'-(A,B-METHYLENETRIPHOSPHONATE)/CN
E8	1	ADENOSINE 5'-(A-(RP)-BORANO) TRIPHOSPHATE/CN
E9	1	ADENOSINE 5'-(A-THIODIPHOSPHATE)/CN
E10	1	ADENOSINE 5'-(B,Γ-IMIDOTRIPHOSPHATE)/CN
E11	1	ADENOSINE 5'-(B,Γ-IMINOTRIPHOSPHATE)/CN

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E12      1      ADENOSINE 5'-(B,Γ-METHYLENE) TRIPHOSPHATE/CN

=> E
E13      1      ADENOSINE 5'-(B-BROMOETHANEPHOSPHONATE)/CN
E14      1      ADENOSINE 5'-(B-BROMOETHYL) PHOSPHONATE/CN
E15      1      ADENOSINE 5'-(B-THIODIPHOSPHATE)/CN
E16      1      ADENOSINE 5'-(Γ-S) TRIPHOSPHATE/CN
E17      1      ADENOSINE 5'-(Γ-THIOTRIPHOSPHATE)/CN
E18      1      ADENOSINE 5'-(2-CHLOROETHYL) PHOSPHATE/CN
E19      1      ADENOSINE 5'-(3-THIOTRIPHOSPHATE)/CN
E20      1      ADENOSINE 5'-(4-CHLOROBUTYL) PHOSPHATE/CN
E21      1      ADENOSINE 5'-(CHLOROMETHYL) PHOSPHONATE/CN
E22      1      ADENOSINE 5'-(DECAHYDROGEN NONAPHOSPHATE)/CN
E23      1      ADENOSINE 5'-(DECAHYDROGEN NONAPHOSPHATE), P'''''''.FWDARW.
5'-ESTER WITH ADENOSINE/CN
E24      1      ADENOSINE 5'-(DIHYDROGEN PHOSPHATE)/CN

=> E
E25      1      ADENOSINE 5'-(DODECAHYDROGEN UNDECAPHOSPHATE)/CN
E26      1      ADENOSINE 5'-(DODECAHYDROGEN UNDECAPHOSPHATE), P'''''''''.F
WDARW.5'-ESTER WITH ADENOSINE/CN
E27      1      ADENOSINE 5'-(EICOSAHYDROGEN NONADECAPHOSPHATE)/CN
E28      1      ADENOSINE 5'-(HENEICOSAHYDROGEN EICOSAPHOSPHATE)/CN
E29      1      ADENOSINE 5'-(HEPTADECAHYDROGEN HEXADECAPHOSPHATE)/CN
E30      1      ADENOSINE 5'-(HEPTADECAHYDROGEN HEXADECAPHOSPHATE), P''''''''
'''''''.FWDARW.5'-ESTER WITH ADENOSINE/CN
E31      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE)/CN
E32      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE), 2'-O-METHYL-, P'
'''''.FWDARW.5'-ESTER WITH ADENOSINE/CN
E33      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE), 3'-(4-BENZOYL BEN
ZOATE), P'''''.FWDARW.5'-ESTER WITH ADENOSINE/CN
E34      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE), P'''''''.FWDARW.5'
-ESTER WITH ADENOSINE/CN
E35      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE), P'''''''.FWDARW.5'
-ESTER WITH ADENOSINE, AMMONIUM SALT/CN
E36      1      ADENOSINE 5'-(HEPTAHYDROGEN HEXAPHOSPHATE), P'''''''.FWDARW.5'
-ESTER WITH ADENOSINE, HEXAAMMONIUM SALT/CN

=> E adenosine 3
NUMBER OF TERMS TO DISPLAY IS OUT OF RANGE
The total number of terms displayed in a single EXPAND command
must be in the range 5-25.

=> E adenosine 3/CN
E1      1      ADENOSINE 2'-PHOSPHATE 5'-PYROPHOSPHATE/CN
E2      1      ADENOSINE 2-SULFONATE/CN
E3      0 --> ADENOSINE 3/CN
E4      1      ADENOSINE 3 (DROSOPHILA AFFINIS GENE ADE3 FRAGMENT)/CN
E5      1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN 0101.3 GENE ADE3 FRAG
MENT)/CN
E6      1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN 0101.4 GENE ADE3 FRAG
MENT)/CN
E7      1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN 0101.5 GENE ADE3 FRAG
MENT)/CN
E8      1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN 0101.7 GENE ADE3 FRAG
MENT)/CN
E9      1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN 0101.9 GENE ADE3 FRAG
MENT)/CN
E10     1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN MA28 GENE ADE3 FRAGME
NT)/CN
E11     1      ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN MA32 GENE ADE3 FRAGME
NT)/CN

```

E12 1 ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN MSH22 GENE ADE3 FRAGMENT)/CN

=> E

E13 1 ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN MSH38 GENE ADE3 FRAGMENT)/CN

E14 1 ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN SP138 GENE ADE3 FRAGMENT)/CN

E15 1 ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN SP235 GENE ADE3 FRAGMENT)/CN

E16 1 ADENOSINE 3 (DROSOPHILA MIRANDA STRAIN SP295 GENE ADE3 FRAGMENT)/CN

E17 1 ADENOSINE 3 (DROSOPHILA PSEUDOBOBSCURA GENE ADE3 FRAGMENT)/CN

E18 1 ADENOSINE 3',5'-BISPHOSPHATE/CN

E19 1 ADENOSINE 3',5'-CYCLIC PHOSPHATE/CN

E20 1 ADENOSINE 3',5'-CYCLIC PHOSPHATE 2'-TOSYLATE/CN

E21 1 ADENOSINE 3',5'-CYCLIC PHOSPHATE TRIETHYLAMMONIUM SALT/CN

E22 1 ADENOSINE 3',5'-CYCLIC PHOSPHOROTHIOATE/CN

E23 1 ADENOSINE 3',5'-CYCLIC-N-CYCLOHEXYL PHOSPHORAMIDATE/CN

E24 1 ADENOSINE 3',5'-CYCLOPHOSPHATE/CN

=> E

E25 1 ADENOSINE 3',5'-CYCLOSULFATE/CN

E26 1 ADENOSINE 3',5'-CYCLOTHIOPHOSPHATE/CN

E27 1 ADENOSINE 3',5'-DIPHOSPHATE/CN

E28 1 ADENOSINE 3',5'-DIPHOSPHATE, 2'-DEOXY-, 3',5'-ESTER WITH 2'-DEOXYADENOSINE, 5'-METHYL ESTER/CN

E29 1 ADENOSINE 3',5'-DIPHOSPHATE, 5'-ANHYDRIDE WITH SULFURIC ACID/CN

E30 1 ADENOSINE 3',5'-DIPHOSPHATE, 5'-ANHYDRIDE WITH SULFURIC-35S ACID/CN

E31 1 ADENOSINE 3',5'-DIPYROPHOSPHATE/CN

E32 1 ADENOSINE 3',5'-MONOPHOSPHATE/CN

E33 1 ADENOSINE 3',5'-MONOPHOSPHATE PHOSPHODIESTERASE/CN

E34 1 ADENOSINE 3',5'-MONOPHOSPHATE PHOSPHOHYDROLASE/CN

E35 1 ADENOSINE 3',5'-MONOPHOSPHONATE MONOHYDRATE/CN

E36 1 ADENOSINE 3',5'-MONOPHOSPHOROTHIOATE/CN

=> E

E37 1 ADENOSINE 3',5'-MONOSULFATE/CN

E38 1 ADENOSINE 3',5'-PHOSPHATE/CN

E39 1 ADENOSINE 3',5'-PHOSPHATE (CYCLIC), 1-OXIDE/CN

E40 1 ADENOSINE 3',5'-PHOSPHATE PHOSPHODIESTERASE/CN

E41 1 ADENOSINE 3',5'-PHOSPHORIC ACID MAGNESIUM SALT/CN

E42 1 ADENOSINE 3',5'-PHOSPHORIC ACID SODIUM SALT/CN

E43 1 ADENOSINE 3',5'-PHOSPHOROTHIOATE/CN

E44 1 ADENOSINE 3'-(BENZYL PHOSPHATE)/CN

E45 1 ADENOSINE 3'-(DIHYDROGEN PHOSPHATE)/CN

E46 1 ADENOSINE 3'-(HEPTAHYDROGEN HEXAPHOSPHATE), P'''''.FWDARW.5'-ESTER WITH ADENOSINE/CN

E47 1 ADENOSINE 3'-(HEXAHYDROGEN PENTAPHOSPHATE), P'''''.FWDARW.5'-ESTER WITH ADENOSINE/CN

E48 1 ADENOSINE 3'-(OCTAHYDROGEN HEPTAPHOSPHATE), P'''''.FWDARW.5'-ESTER WITH ADENOSINE/CN

=> E

E49 1 ADENOSINE 3'-(PENTAHYDROGEN TETRAPHOSPHATE)/CN

E50 1 ADENOSINE 3'-(PENTAHYDROGEN TETRAPHOSPHATE), 2',5'-DIDEOXY-/CN

E51 1 ADENOSINE 3'-(PENTAHYDROGEN TETRAPHOSPHATE), 2',5'-DIDEOXY-, SODIUM SALT/CN

E52 1 ADENOSINE 3'-(PENTAHYDROGEN TETRAPHOSPHATE), 2'-DEOXY-/CN

IDE WITH PHOSPHOROTHIOIC ACID/CN
E83 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-, P'-ANHYDR
IDE WITH PHOSPHOROTHIOIC-3S ACID/CN
E84 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-, P'.FWDARW
.3'-ESTER WITH 2'-DEOXYADENOSINE/CN
=> E
E85 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-, P'.FWDARW
.5'-ESTER WITH 2'-DEOXYADENOSINE/CN
E86 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-, P'.FWDARW
.5'-ESTER WITH 2'-DEOXYADENOSINE, COMPLEX WITH 5'-URIDYLIC A
CID HOMOPOLYMER/CN
E87 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-, P'.FWDARW
.5'-ESTER WITH THYMIDINE/CN
E88 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-N-(DIPHENYL
ACETYL)-, 5'-(BIS(2-(METHYLSULFONYL)ETHYL) PHOSPHATE), P'.FW
DARW.3'-ESTER WITH BIS(2-(METHYLSULFONYL)ETHYL) 2'-DEOXY-N-(
DIPHENYLACETYL)-5'-A/CN
E89 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXY-N-(DIPHENYL
ACETYL)-, 5'-(BIS(2-(METHYLSULFONYL)ETHYL) PHOSPHATE), P'.FW
DARW.5'-ESTER WITH BIS(2-(METHYLSULFONYL)ETHYL) 2'-DEOXY-N-(
DIPHENYLACETYL)-3'-A/CN
E90 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-DEOXYGUANYLYL-(3'
.FWDARW.5')-CYTIDYLYL-(3'.FWDARW.5')-URIDYLYL-(3'.FWDARW.5')
-, CYCLIC NUCLEOTIDE, 3'-(ETHYL HYDROGEN PHOSPHATE)/CN
E91 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 2'-O-(1-ETHOXYETHYL)
-, 5'-(TRIHYDROGEN DIPHOSPHATE)/CN
E92 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(DIHYDROGEN PHOSP
HATE)/CN
E93 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(DIHYDROGEN PHOSP
HATE), LITHIUM SALT/CN
E94 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(DIHYDROGEN PHOSP
HATE), P'.FWDARW.5'-ESTER WITH 2'-DEOXY-3'-ADENYLIC ACID/CN
E95 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
OSPHATE)/CN
E96 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
OSPHATE), HEXALITHIUM SALT/CN
=> E
E97 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
OSPHATE), LITHIUM SALT/CN
E98 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
OSPHATE), P'.FWDARW.5'-ESTER WITH 3-(AMINOCARBONYL)-1-B
-D-RIBOFURANOSYLPYRIDINIUM, INNER SALT/CN
E99 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), GUANYLYL-(3'.FWDARW.
5')-CYTIDYLYL-(3'.FWDARW.5')-URIDYLYL-(3'.FWDARW.5')-, CYCLI
C NUCLEOTIDE/CN
E100 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), N-BENZOYL-2'-O-((1,1
-DIMETHYLETHYL)DIMETHYLSILYL)-5'-O-((4-METHOXYPHENYL)DIPHENY
LMETHYL)-, P,P'-BIS(2-(4-NITROPHENYL)ETHYL) ESTER, ESTER WIT
H N-BENZOYL-2'-O-((1/CN
E101 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), N-BENZOYL-5'-O-(BIS(4
-METHOXYPHENYL)PHENYLMETHYL)-2'-DEOXY-, P,P'-BIS(4-CHLOROPH
ENYL) ESTER, 5'-ESTER WITH N-BENZOYL-3'-O-(BIS(4-METHOXYPHEN
YL)PHENYLMETHYL)-2'-CN
E102 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.3'-ESTER W
ITH ADENOSINE/CN
E103 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
ITH 2'-DEOXY-3'-ADENYLIC ACID/CN
E104 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
ITH 2'-DEOXY-3'-CYTIDYLIC ACID/CN
E105 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W

ITH 3'-ADENYLIC ACID/CN
 E106 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH 3-(AMINOCARBONYL)-1-B-D-RIBOFURANOSYLPYRIDINIUM/CN
 E107 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH ADENOSINE/CN
 E108 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH ADENOSINE CYCLIC 2',3'-(HYDROGEN PHOSPHATE)/CN
 => E
 E109 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH ADENOSINE, DISODIUM SALT/CN
 E110 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH ADENYL- (2'.FWDARW.5')-ADENOSINE/CN
 E111 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH CYTIDINE/CN
 E112 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH THYMIDINE/CN
 E113 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH URIDINE/CN
 E114 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), P-(2-CHLOROPHENYL)-2
 '-DEOXY-N-(4-METHOXYBENZOYL)-5'-O-((4-METHOXYPHENYL)DIPHENYL
 METHYL)CYTIDYL- (3'.FWDARW.5')-P-(2-CHLOROPHENYL)-2'-DEOXY-
 N-(4-METHOXYBENZOYL)/CN
 E115 1 ADENOSINE 3'-(TRIHYDROGEN DIPHOSPHATE), THYMIDYL- (3'.FWDAR
 W.5')-THYMIDYL- (3'.FWDARW.5')-2'-DEOXYGUANYL- (3'.FWDARW.
 5')-2'-DEOXYGUANYL- (3'.FWDARW.5')-THYMIDYL- (3'.FWDARW.5'
)-THYMIDYL- (3'.FWD/CN
 E116 1 ADENOSINE 3'-(TRIHYDROGEN PYROPHOSPHATE)/CN
 E117 1 ADENOSINE 3'-(TRIHYDROGEN PYROPHOSPHATE), 3'.FWDARW.5'-ESTER
 WITH CYTIDINE/CN
 E118 1 ADENOSINE 3'-(TRIHYDROGEN PYROPHOSPHATE), DIAMMONIUM SALT/CN
 E119 1 ADENOSINE 3'-ACETATE 5'-PHOSPHATE/CN
 E120 1 ADENOSINE 3'-DIPHOSPHATE/CN
 => E
 E121 1 ADENOSINE 3'-DIPHOSPHATE 5'-MONOPHOSPHATE/CN
 E122 1 ADENOSINE 3'-DIPHOSPHATE 5'-PHOSPHATE/CN
 E123 1 ADENOSINE 3'-DIPHOSPHATE 5'-TRIPHOSPHATE/CN
 E124 1 ADENOSINE 3'-METHYL PHOSPHATE/CN
 E125 1 ADENOSINE 3'-MONOPHOSPHATE/CN
 E126 1 ADENOSINE 3'-MONOPHOSPHATE-8-3H/CN
 E127 1 ADENOSINE 3'-NITRATE 5'-PHOSPHATE/CN
 E128 1 ADENOSINE 3'-O-METHYL PHOSPHATE/CN
 E129 1 ADENOSINE 3'-PHOSPHATE/CN
 E130 1 ADENOSINE 3'-PHOSPHATE 5'-DIPHOSPHATE/CN
 E131 1 ADENOSINE 3'-PHOSPHATE 5'-PHOSPHOSULFATE/CN
 E132 1 ADENOSINE 3'-PHOSPHATE 5'-PHOSPHOSULFATE REDUCTASE/CN

=> S E125

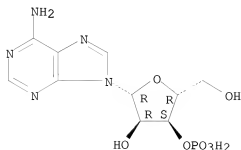
L4 1 "ADENOSINE 3'-MONOPHOSPHATE"/CN

=> D L4

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 84-21-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 3'-Adenylic acid (CA INDEX NAME)
 OTHER NAMES:
 CN 3'-AMP
 CN Adenosine 3'-(dihydrogen phosphate)
 CN Adenosine 3'-monophosphate
 CN Adenosine 3'-phosphate

CN NSC 210570
 CN Synadenylic acid
 FS STEREOSEARCH
 MF C10 H14 N5 O7 P
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA,
 CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSChem, EMBASE, IFICDB, IFIPAT,
 IFIUDB, IPA, MRCK*, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL,
 USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

930 REFERENCES IN FILE CA (1907 TO DATE)
 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 930 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E adenosine 2/CN

E1	1	ADENOSINE 1-OXIDE 5'-MONOPHOSPHATE/CN
E2	1	ADENOSINE 1-OXIDE 5'-TRIPHOSPHATE/CN
E3	0 -->	ADENOSINE 2/CN
E4	1	ADENOSINE 2',3',5'-TRIACETATE, RHODIUM COMPLEX/CN
E5	1	ADENOSINE 2',3',5'-TRINITRATE/CN
E6	1	ADENOSINE 2',3'-CYCLIC MONOPHOSPHATE SODIUM SALT/CN
E7	1	ADENOSINE 2',3'-CYCLIC PHOSPHATE/CN
E8	1	ADENOSINE 2',3'-CYCLIC PHOSPHATE 5'-PHOSPHOSULFATE/CN
E9	1	ADENOSINE 2',3'-CYCLIC PHOSPHATE SODIUM SALT/CN
E10	1	ADENOSINE 2',3'-DIACETATE 5'-PHOSPHATE/CN
E11	1	ADENOSINE 2',3'-DIPHOSPHATE/CN
E12	1	ADENOSINE 2',3'-PHOSPHATE (CYCLIC), COMPD. WITH NICOTINAMIDE /CN

=> E

E13	1	ADENOSINE 2',3'-PHOSPHATE, (CYCLIC), COMPD. WITH BU3N/CN
E14	1	ADENOSINE 2',5' (OR 3',5')-DIPHOSPHATE/CN
E15	1	ADENOSINE 2',5'-BISPHOSPHATE/CN
E16	1	ADENOSINE 2',5'-CYCLIC MONOPHOSPHATE/CN
E17	1	ADENOSINE 2',5'-DINITRATE 3'-PHOSPHATE/CN
E18	1	ADENOSINE 2',5'-DIPHOSPHATE/CN
E19	1	ADENOSINE 2'-(DIHYDROGEN PHOSPHATE)/CN
E20	1	ADENOSINE 2'-(PENTAHYDROGEN TETRAPHOSPHATE), ADENYL-L-(2'.FW

E21 1 DARDW.5')-, P'''FWDARW.5'-ESTER WITH ADENOSINE/CN
 ADENOSINE 2'-(PENTAHYDROGEN TETRAPHOSPHATE), ADENYL- (2'.FW
 DARW.5')-ADENYL- (2'.FWDARW.5')-, P'''FWDARW.5'-ESTER WITH
 ADENOSINE/CN
 E22 1 ADENOSINE 2'-(PENTAHYDROGEN TETRAPHOSPHATE), ADENYL- (2'.FW
 DARW.5')-ADENYL- (2'.FWDARW.5')-ADENYL- (2'.FWDARW.5')-, P
 '''FWDARW.5'-ESTER WITH ADENOSINE/CN
 E23 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE)/CN
 E24 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), 3'-DEOXY-/CN
 => E
 E25 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), 3'-DEOXY-3'-FLUOR
 O-/CN
 E26 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), 5'-(TETRAHYDROGEN
 TRIPHOSPHATE)/CN
 E27 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), ADENYL- (2'.FWDA
 RW.5')-/CN
 E28 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), ADENYL- (2'.FWDA
 RW.5')-ADENYL- (2'.FWDARW.5')-/CN
 E29 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), ADENYL- (2'.FWDA
 RW.5')-ADENYL- (2'.FWDARW.5')-, P'''FWDARW.5'-ESTER WITH AD
 ENOSINE/CN
 E30 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), ADENYL- (2'.FWDA
 RW.5')-ADENYL- (2'.FWDARW.5')-ADENYL- (2'.FWDARW.5')-/CN
 E31 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), ADENYL- (2'.FWDA
 RW.5')-ADENYL- (2'.FWDARW.5')-ADENYL- (2'.FWDARW.5')-ADENY
 L- (2'.FWDARW.5')-/CN
 E32 1 ADENOSINE 2'-(TETRAHYDROGEN TRIPHOSPHATE), MANGANESE SALT/CN
 E33 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
 OSPHATE)/CN
 E34 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), 5'-(TRIHYDROGEN DIPH
 OSPHATE), P'.FWDARW.5'-ESTER WITH 3-(AMINOCARBONYL)-1-B
 -D-RIBOFURANOSYLPYRIDINIUM, INNER SALT/CN
 E35 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), 5'-O-(HYDROXY (METHYL
 THIO)PHOSPHINYL)ADENYL- (2'.FWDARW.5')-ADENYL- (2'.FWDARW.
 5')-3'-O-METHYL-/CN
 E36 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), ADENYL- (2'.FWDARW.
 5')-ADENYL- (2'.FWDARW.5')-, P'.FWDARW.5'-ESTER WITH ADENOS
 INE/CN
 => E
 E37 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH 2'-CYTIDYLIC ACID/CN
 E38 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH ADENOSINE/CN
 E39 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH CYTIDINE/CN
 E40 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH THYMIDINE/CN
 E41 1 ADENOSINE 2'-(TRIHYDROGEN DIPHOSPHATE), P'.FWDARW.5'-ESTER W
 ITH URIDINE/CN
 E42 1 ADENOSINE 2'-(TRIHYDROGEN PYROPHOSPHATE)/CN
 E43 1 ADENOSINE 2'-(TRIHYDROGEN PYROPHOSPHATE), ESTER WITH 10-(2,3
 , 4, 5-TETRAHYDROXYPENTYL)ISOALLOXAZINE/CN
 E44 1 ADENOSINE 2'-ACETATE 5'-PHOSPHATE/CN
 E45 1 ADENOSINE 2'-MONOPHOSPHATE/CN
 E46 1 ADENOSINE 2'-MONOPHOSPHO-5'-DIPHOSPHORIBOSE/CN
 E47 1 ADENOSINE 2'-PHOSPHATE/CN
 E48 1 ADENOSINE 2'-PHOSPHATE 5'-DIPHOSPHATE RIBOSE/CN

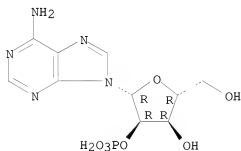
=> S E45

L5 1 "ADENOSINE 2'-MONOPHOSPHATE"/CN

=> D L5

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 130-49-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2'-Adenylic acid (CA INDEX NAME)
OTHER NAMES:
CN 2'-AMP
CN Adenosine 2'-(dihydrogen phosphate)
CN Adenosine 2'-monophosphate
CN Adenosine 2'-phosphate
FS STEREOSEARCH
DR 27082-34-4, 293738-05-3
MF C10 H14 N5 O7 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS,
CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE,
RTECS*, SPECINFO, TOXCENTER, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

630 REFERENCES IN FILE CA (1907 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
630 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> E ascorbyl 2-glucoside/CN
E1 1 ASCORBYL/CN
E2 1 ASCORBYL 2,6-DIPALMITATE/CN
E3 0 --> ASCORBYL 2-GLUCOSIDE/CN
E4 1 ASCORBYL 6-LAURYLATE/CN
E5 1 ASCORBYL 6-PALMITATE/CN
E6 1 ASCORBYL 6-STEARATE/CN
E7 1 ASCORBYL BEHENATE/CN
E8 2 ASCORBYL BENZOATE/CN
E9 2 ASCORBYL DECANOATE/CN
E10 1 ASCORBYL DILAURATE/CN
E11 1 ASCORBYL DIMYRISTATE/CN
E12 1 ASCORBYL DIPALMITATE/CN

```

=> E ascorbyl glucoside/CN
E1      1      ASCORBYL DIPALMITATE/CN
E2      1      ASCORBYL GAMOLENATE/CN
E3      1 -->  ASCORBYL GLUCOSIDE/CN
E4      1      ASCORBYL L-LACTATE/CN
E5      1      ASCORBYL LAURATE/CN
E6      1      ASCORBYL LINOLENATE/CN
E7      1      ASCORBYL MONOMYRISTATE/CN
E8      1      ASCORBYL MONOPALMITATE/CN
E9      1      ASCORBYL MYRISTATE/CN
E10     1      ASCORBYL OCTANOTE/CN
E11     1      ASCORBYL PALMITATE/CN
E12     1      ASCORBYL PALMITATE-A-TOCOPHERAMINE MIXTURE/CN

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=> S E3

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L6      1 "ASCORBYL GLUCOSIDE"/CN

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=> D L6

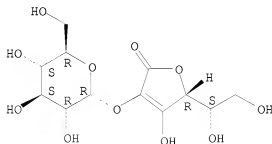
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L6      ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN      129499-78-1  REGISTRY
ED      Entered STN:  21 Sep 1990
CN      L-Ascorbic acid, 2-O- $\alpha$ -D-glucopyranosyl-  (CA INDEX NAME)
OTHER NAMES:
CN      2-O- $\alpha$ -D-Glucopyranosyl-L-ascorbic acid
CN      2-O- $\alpha$ -D-Glucosyl-L-ascorbic acid
CN      AA 2G
CN      Ascofresh
CN      Ascorbyl glucoside
CN      L-Ascorbic acid 2-glucoside
CN      L-Ascorbic acid glucoside
FS      STEREOSEARCH
DR      768394-81-6, 577772-83-9, 1038931-06-4, 152452-81-8, 149614-94-8,
      189746-43-8, 286844-98-2, 334667-58-2, 340136-52-9, 446287-26-9
MF      C12 H18 O11
CI      COM
SR      CA
LC      STN Files:  AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
      CHEMCATS, CHEMLIST, MEDLINE, PROUSDDR, TOXCENTER, USPAT2, USPATFULL
      (*File contains numerically searchable property data)

```

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

513 REFERENCES IN FILE CA (1907 TO DATE)
 10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

515 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FILE MEDICINE

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

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60.29

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FILE 'USPATOLD' ENTERED AT 11:41:12 ON 05 MAY 2009
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=> S 129499-78-1/RN
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NUMERIC VALUE NOT VALID '129499-78-1'

L7 649 129499-78-1/RN

[illegible]

'RN' IS NOT A VALID FIELD CODE
 'RN' IS NOT A VALID FIELD CODE
 L8 10 L7 AND (61-19-8/RN OR 84-21-9/RN OR 130-49-4/RN)

=> D L8 1-8 IBIB ABS

L8 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:173888 CAPLUS
 DOCUMENT NUMBER: 146:212282
 TITLE: Agent for enhancing collagen production and utilization of the same
 INVENTOR(S): Miyata, Satomi; Ushio, Shimpei; Iwaki, Kanso; Miyake, Toshio
 PATENT ASSIGNEE(S): Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SOURCE: PCT Int. Appl., 46pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007018124	A1	20070215	WO 2006-JP315410	20060803
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1932530	A1	20080618	EP 2006-782270	20060803
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
KR 2008034890	A	20080422	KR 2008-701705	20080122
CN 101232891	A	20080730	CN 2006-80028198	20080131
US 20090110671	A1	20090430	US 2008-63563	20080211
PRIORITY APPLN. INFO.:			JP 2005-232679	A 20050811
			WO 2006-JP315410	W 20060803
AB	It is intended to provide a means exerting a prolonged effect of enhancing the production of collagen. This object can be achieved by an agent for enhancing collagen production which contains, as the active ingredient, α , α -trehalose and/or a sugar derivative of α , α -trehalose, or a composition for enhancing collagen production which contains the agent for enhancing collagen production as described above.			
REFERENCE COUNT:	15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:656036 CAPLUS
 DOCUMENT NUMBER: 145:109781
 TITLE: Solid oil-in-water emulsions containing biologically active electrolytes
 INVENTOR(S): Shinohara, Shigeo; Harano, Fumiki; Tsujimoto, Shinji; Saeki, Isamu
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006070789	A1	20060706	WO 2005-JP23865	20051227
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2006182746	A	20060713	JP 2004-381162	20041228
AU 2005320616	A1	20060706	AU 2005-320616	20051227
CA 2590928	A1	20060706	CA 2005-2590928	20051227
EP 1842522	A1	20071010	EP 2005-822499	20051227
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 101094645	A	20071226	CN 2005-80045327	20051227
IN 2007DN04618	A	20070817	IN 2007-DN4618	20070615
US 20070280979	A1	20071206	US 2007-722965	20070627
KR 2007095305	A	20070928	KR 2007-714814	20070628
PRIORITY APPLN. INFO.:			JP 2004-381162	A 20041228
			WO 2005-JP23865	W 20051227

AB Disclosed is a solid composition consisting of an oil-in-water emulsion that has satisfactory hardness, ensuring excellent feeling upon use and is capable of satisfactory expression of the physiolo. functions of electrolytes. The solid composition can be obtained by preparing an oil-in-water emulsion through combining together of solid oils, liquid oils, surfactants, polyhydric alcs., electrolytes, and water. For example, lipsticks contained paraffin oil 13.5, 2-hexyldecyl isostearate 13, methylpolysiloxane 0.5, candelilla wax 13.5, hydrogenated jojoba oil 8, lipophilic glycerin monostearate 3, stearyl glycyrrhetinate 0.1, ethoxylated hydrogenated castor oil 0.5, maltitol hydroxyalkyl ether 3, decaglyceryl monostearate 1, sodium N-stearoyl-L-glutamate 0.5, glycerin 16, 1,3-butylene glycol 6, ascorbic acid 2-glucoside 2, disodium AMP 3, and distilled water balance to 100 %.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2005:1173832 CAPLUS
 DOCUMENT NUMBER: 143:426980
 TITLE: Skin compositions containing Punica granatum flower extracts
 INVENTOR(S): Yamahara, Joji
 PATENT ASSIGNEE(S): Sakamoto Yakusoen Y. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2005306831	A	20051104	JP 2004-151064	20040420
PRIORITY APPLN. INFO.:				JP 2004-151064	20040420
AB	The invention provides a skin composition characterized by containing Punica granatum flower extract as fibroblast-derived elastase inhibitor, wherein the composition has anti-aging and skin-lightening effect. Skin comps. containing further specified components are also disclosed. For example, a skin lotion containing Punica granatum flower extract 1, glycerin 3, 1,3-butylene glycol 2, polyethylene glycol 2, ethanol 5, Me paraben 0.1, xanthan gum 0.1, citric acid 0.01, sodium citrate 0.03, trimethylglycine 1, and water balance to 100 % was formulated.				

L8 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2004:993109 CAPLUS
DOCUMENT NUMBER: 141:415634
TITLE: Skin compositions containing anti-aging peptides and polyhydric alcohols
INVENTOR(S): Hirano, Nobuyuki; Adachi, Katsuyoshi; Tada, Takahiro; Ito, Shiho; Aramaki, Kaname
PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan; Toshin Kagaku Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2004323401	A	20041118	JP 2003-118442	20030423
PRIORITY APPLN. INFO.:				JP 2003-118442	20030423
AB	The invention relates to a skin composition containing Glu-Glu-Met-Gln-Arg-Arg peptide and polyhydric alc. having ≥ 2 OH groups, wherein the composition shows improved effect of the peptide. Skin comps. containing the hexapeptide, polyhydric alcs., and other active components are also disclosed. A cosmetic lotion containing Glu-Glu-Met-Gln-Arg-Arg peptide solution (Argireline solution) 10, glycerin 10, Me paraben 0.2, and water balance to 100% was formulated.				

L8 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2004:695458 CAPLUS
DOCUMENT NUMBER: 141:230304
TITLE: Skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3
INVENTOR(S): Tada, Takahiro; Tsuji, Nobuhide; Adachi, Katsuyoshi
PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2004238386 A 20040826 JP 2003-118440 20030423
 PRIORITY APPLN. INFO.: JP 2002-358821 A 20021211
 AB Cosmetics and (quasi)drugs contain (derivs. of) shellfish collagen type I
 (α1)3 and skin moisturizers, softening agents, cell activators,
 anti-inflammatory agents, antioxidants, circulation promoters, and/or
 skin-lightening agents. Thus, a liquid cosmetic was formulated containing
 pearl
 oyster collagen type I (α1)3 and Na hyaluronate.

L8 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2004:162578 CAPLUS
 DOCUMENT NUMBER: 140:187005
 TITLE: Antiaging compositions containing ascorbates and
 adenylic acids
 INVENTOR(S): Wakamatsu, Kosaburo; Harano, Fumiki; Koba, Takashige;
 Shinohara, Shigeo
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: PCI Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016238	A1	20040226	WO 2003-JP9783	20030801
W: AU, BR, CA, CN, ID, IN, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004067576	A	20040304	JP 2002-228368	20020806
JP 4129574	B2	20080806		
CA 2493496	A1	20040226	CA 2003-2493496	20030801
AU 2003252312	A1	20040303	AU 2003-252312	20030801
EP 1547577	A1	20050629	EP 2003-788027	20030801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
BR 2003013274	A	20050705	BR 2003-13274	20030801
CN 1674863	A	20050928	CN 2003-818967	20030801
IN 2005DN00392	A	20081205	IN 2005-DN392	20050202
US 20050250710	A1	20051110	US 2005-523605	20050204
PRIORITY APPLN. INFO.:			JP 2002-228368 A 20020806	
			WO 2003-JP9783 W 20030801	
AB	It is intended to provide an antiaging composition by which skin aging can be effectively retarded and, in particular, skin pigmentation can be improved. It is also intended to provide a method of potentiating the antiaging effect of ascorbic acid or its analog. Namely, an antiaging composition characterized by containing (A) at least one member selected from the			
the	group consisting of ascorbic acid, its derivs. and salts thereof; and (B) a purine nucleic acid-related substance. A method of using (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof together with (B) a purine nucleic acid-related substance to thereby potentiate the antiaging effect of the component A. For example, a lotion contained AMP 2, ascorbic acid 2-glucoside 2, 1,3-butyleneglycol 2, concentrated glycerin 2, polyoxyethylene sorbitan monolaurate 1, ethanol 5, preservatives q.s., pH modifiers to pH 6.5, and distilled water balance to 100 %.			
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1995:703456 CAPLUS
 DOCUMENT NUMBER: 123:93348
 ORIGINAL REFERENCE NO.: 123:16473a,16476a
 TITLE: L-Ascorbate preparations for intracerebral administration
 INVENTOR(S): Miwa, Nobuhiko; Ito, Shinobu; Ogata, Eiji
 PATENT ASSIGNEE(S): Showa Denko Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07126162	A	19950516	JP 1993-270901	19931028
US 5869525	A	19990209	US 1996-647767	19960515
PRIORITY APPLN. INFO.:			JP 1993-270901	A 19931028

AB The preps., for intracerebral administration, contain ≥ 1 kinds of L-ascorbates, having forms showing stable activity, and ≥ 1 kinds of blood-brain barrier-opening agents. The preps. are useful for treatment of schizophrenia, medicinal poisoning, Down's syndrome, Parkinson disease, depression, ischemia-reperfusion injury, etc. Neuronal death of jirds (carotid occlusion models for ischemia) was significantly prevented by i.v. administration of 200 μ L of an injection containing 40 μ M L-ascorbic acid 2-phosphate Mg salt and 10% glucose for 5 days.

L8 ANSWER 8 OF 10 USPATFULL on STN
 ACCESSION NUMBER: 2007:321655 USPATFULL
 TITLE: Solid Oil-In-Water Emulsion
 INVENTOR(S): Shinohara, Shigeo, Shiga, JAPAN
 Harano, Fumiki, Shiga, JAPAN
 Tsujimoto, Shinji, Osaka, JAPAN
 Saeiki, Isamu, Osaka, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070280979	A1	20071206
APPLICATION INFO.:	US 2005-722965	A1	20051212 (11)
	WO 2005-JP23865		20051212
			20070627 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2004-381162	20041228
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,	
	901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	793	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB The present invention aims to provide solid compositions comprising an oil-in-water emulsion that have sufficient hardness and good feel when used, and can sufficiently exhibit the physiological functions of an electrolyte. A solid composition is obtained by preparing an oil-in-water emulsion by combining a solid oil (A), a liquid oil (B), a surfactant (C), a polyhydric alcohol (D), an electrolyte (E), and water (F).

=> S L11 and (topical or skin or dermatol?)
25 FILES SEARCHED...
L12 15 L11 AND (TOPICAL OR SKIN OR DERMATOL?)

=> D L12 1-15 IBIB ABS

L12 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2004:993109 CAPLUS
DOCUMENT NUMBER: 141:415634
TITLE: Skin compositions containing anti-aging
peptides and polyhydric alcohols
INVENTOR(S): Hirano, Nobuyuki; Adachi, Katsuyoshi; Tada, Takahiro;
Ito, Shiho; Aramaki, Kaname
PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan; Toshin
Kagaku Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2004323401	A	20041118	JP 2003-118442	20030423 <--
PRIORITY APPLN. INFO.:			JP 2003-118442	20030423

AB The invention relates to a skin composition containing
Glu-Glu-Met-Gln-Arg-Arg peptide and polyhydric alc. having ≥ 2 OH
groups, wherein the composition shows improved effect of the peptide.
Skin comps. containing the hexapeptide, polyhydric alcs., and other
active components are also disclosed. A cosmetic lotion containing
Glu-Glu-Met-Gln-Arg-Arg peptide solution (Argireline solution) 10, glycerin 10,
Me paraben 0.2, and water balance to 100% was formulated.

L12 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2004:795825 CAPLUS
DOCUMENT NUMBER: 142:169387
TITLE: Prophylactic administration of topical
glutamine enhances the capability of the rat colon to
resist inflammatory damage
AUTHOR(S): Israeli, Eran; Berenshtein, Eduard; Wengrower, Dov;
Aptekar, Larisa; Kohen, Ron; Zajicek, Gershon; Goldin,
Eran
CORPORATE SOURCE: Department of Gastroenterology, Hadassah University
Hospital and Hebrew University Medical School,
Jerusalem, Israel
SOURCE: Digestive Diseases and Sciences (2004),
49(10), 1705-1712
CODEN: DDSCDJ; ISSN: 0163-2116
PUBLISHER: Springer Science+Business Media, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Glutamine is an important nutrient for the GI tract and has been shown to
exert a protective effect on the bowel. Nonetheless, in the context of
inflammatory bowel disease (IBD), data demonstrating a therapeutic role
for glutamine has been inconclusive. IBD is associated with oxidative stress
caused by reactive oxygen species. We aimed to investigate the effect of
topical glutamine administration in rats before or after induction
of colitis by trinitrobenzenesulfonic acid. In study I glutamine enemas
were given beginning 2 days before or on the same day of induction of
colitis. Inflammation severity was assessed by macroscopic and

microscopic score and tissue myeloperoxidase activity. In study II glutamine enemas were given for 3 days without induction of colitis, and mitotic index and colonic crypt length were measured, as well as water-soluble low mol. weight antioxidants and energy-rich phosphate levels (by HPLC). Results showed that glutamine significantly decreased indexes of inflammation when administered before induction of colitis. Glutamine caused an increase in the mitotic index and the levels of water-soluble low mol. weight antioxidants and energy-rich phosphates. We conclude that glutamine exerts a beneficial effect only when administered before induction of colitis, by increasing the resistance of the colonic tissue to inflammatory injury. This effect is probably mediated by increasing the antioxidant capacity and energy level of the tissue.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:695458 CAPLUS

DOCUMENT NUMBER: 141:230304

TITLE: Skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3

INVENTOR(S): Tada, Takahiro; Tsuji, Nobuhide; Adachi, Katsuyoshi

PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004238386	A	20040826	JP 2003-118440	20030423 <--
PRIORITY APPLN. INFO.: JP 2002-358821 A 20021211				
AB Cosmetics and (quasi)drugs contain (derivs. of) shellfish collagen type I (α1)3 and skin moisturizers, softening agents, cell activators, anti-inflammatory agents, antioxidants, circulation promoters, and/or skin-lightening agents. Thus, a liquid cosmetic was formulated containing pearl oyster collagen type I (α1)3 and Na hyaluronate.				

L12 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:162578 CAPLUS

DOCUMENT NUMBER: 140:187005

TITLE: Antiaging compositions containing ascorbates and adenylic acids

INVENTOR(S): Wakamatsu, Kosaburo; Harano, Fumiki; Koba, Takashige;

Shinohara, Shigeo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016238	A1	20040226	WO 2003-JP9783	20030801 <--
W: AU, BR, CA, CN, ID, IN, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				

JP 2004067576	A	20040304	JP 2002-228368	20020806 <--
JP 4129574	B2	20080806		
CA 2493496	A1	20040226	CA 2003-2493496	20030801 <--
AU 2003252312	A1	20040303	AU 2003-252312	20030801 <--
EP 1547577	A1	20050629	EP 2003-788027	20030801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
BR 2003013274	A	20050705	BR 2003-13274	20030801
CN 1674863	A	20050928	CN 2003-818967	20030801
IN 2005DN00392	A	20081205	IN 2005-DN392	20050202
US 20050250710	A1	20051110	US 2005-523605	20050204
PRIORITY APPLN. INFO.:			JP 2002-228368	A 20020806
			WO 2003-JP9783	W 20030801

AB It is intended to provide an antiaging composition by which skin aging can be effectively retarded and, in particular, skin pigmentation can be improved. It is also intended to provide a method of potentiating the antiaging effect of ascorbic acid or its analog. Namely, an antiaging composition characterized by containing (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof; and (B) a purine nucleic acid-related substance. A method of using (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof together with (B) a purine nucleic acid-related substance to thereby potentiate the antiaging effect of the component A. For example, a lotion contained AMP 2, ascorbic acid 2-glucoside 2, 1,3-butylene glycol 2, concentrated glycerin 2, polyoxyethylene sorbitan monolaurate 1, ethanol 5, preservatives q.s., pH modifiers to pH 6.5, and distilled water balance to 100 %.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:585381 CAPLUS
 DOCUMENT NUMBER: 133:182770
 TITLE: Antiaging cosmetics containing tomato pigments
 Uehara, Shizuka; Kameyama, Kumi; Kondo, Chiharu;
 Takada, Norihisa
 PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan; Nippon Delmonte K. K.
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000229827	A	20000822	JP 1999-28301	19990205 <--
PRIORITY APPLN. INFO.:			JP 1999-28301	19990205

AB The cosmetics are claimed. The tomato pigments may mainly comprise lycopene isolated by centrifugation of tomato preps., microfiltration of the liquid parts, and collection of unfiltered substances by microfiltration. The cosmetics may addnl. contain active oxygen scavengers, antioxidants, inflammation inhibitors, UV shields, cell activators, and/or moisturizers. A cream containing the tomato pigment was used by volunteers to lighten skin and increase elasticity.

L12 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1998:41974 CAPLUS
 DOCUMENT NUMBER: 128:106245
 ORIGINAL REFERENCE NO.: 128:20735a, 20738a
 TITLE: Skin-lightening and antiaging cosmetics
 INVENTOR(S): Seiki, Hitoshi; Okano, Yuri

PATENT ASSIGNEE(S): NOEVIR Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10007541	A	19980113	JP 1996-181321	19960620 <--
PRIORITY APPLN. INFO.:			JP 1996-181321	19960620

AB Skin-lightening and antiaging cosmetics comprise: (A) lipoic acid and (B) compds. selected from vitamin A or its derivs., carotenes, riboflavin or its derivs., vitamin B6 or its salts or derivs., cobalamins, vitamin C or its salts or derivs., vitamin E or its derivs., vitamin K, adenosine or its derivs., flavonoids and tannins, in addition to other ingredients.

L12 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1997:731707 CAPLUS
 DOCUMENT NUMBER: 128:16289
 ORIGINAL REFERENCE NO.: 128:3091a,3094a
 TITLE: Compositions for external use
 Kondo, Chiharu; Senoo, Masami
 INVENTOR(S): Kosei Co., Ltd., Japan
 PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 23 pp.
 SOURCE: CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09291011	A	19971111	JP 1996-127955	19960424 <--
PRIORITY APPLN. INFO.:			JP 1996-127955	19960424

AB Compns. [cosmetics or topical prepsns.] for external use comprise: (A) apple exts. and (B) tyrosinase inhibitors, active oxygen scavengers, antioxidants, cell activators, antiinflammatories and/or moisturizers. A skin-care and antiaging lotion contained glycerin 5.0, 1,3-butylene glycol 6.5, POE sorbitan monolaurate 1.2, ethanol 8.0, apple exts. 0.01, superoxide dismutase 0.01, preservatives, perfumes, and purified water to 100 %.

L12 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1997:491402 CAPLUS
 DOCUMENT NUMBER: 127:99538
 ORIGINAL REFERENCE NO.: 127:19097a,19100a
 TITLE: Topical compositions
 Hoshino, Taku; Kondo, Chiharu; Senoo, Masami;
 INVENTOR(S): Yamashita, Eiiji
 PATENT ASSIGNEE(S): Kosei K. K., Japan; Itano Reito K. K.
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09143063 A 19970603 JP 1995-326241 19951122 <--
 JP 2006348035 A 20061228 JP 2006-187127 20060706
 PRIORITY APPLN. INFO.: JP 1995-326241 A3 19951122

AB Topical compns. for cosmetic or therapeutic use comprise (A) astaxanthin and (B) active ingredients such as moisturizers, antioxidants and active oxygen removers. As an example, a cosmetic emulsion contained stearic acid 18.0, cetanol 4.0, triethanolamine 2.0, glycerin 5.0, astaxanthin 1.0, lactic acid 1.0, and purified water to 100%.

L12 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:89229 CAPLUS

DOCUMENT NUMBER: 124:126879

ORIGINAL REFERENCE NO.: 124:23413a, 23416a

TITLE: Topical preparations containing Flor de Manita extract and active oxygen scavengers, antioxidants, or other biologically active substances

INVENTOR(S): Suzuki, Masayuki; Yanagisawa, Makiko; Hayashi, Akinobu; Asai, Mariko

PATENT ASSIGNEE(S): Dowa Mining Co., Japan; Kosei Kk

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07277939	A	19951024	JP 1994-89204	19940405 <--
PRIORITY APPLN. INFO.:			JP 1994-89204	19940405

AB Topical prepsns. contain Flor de Manita (Mexican plant) exts. and active oxygen scavengers, antioxidants, inflammation inhibitors, tyrosinase inhibitors and/or humectants. The prepsns. showed marked cosmetic and antiaging activities. A cosmetic emulsion contained squalane 5.0, white petrolatum 2.0, beeswax 0.5, sorbitan sesquiolate 0.8, polyoxyethylene oleyl ether 1.2, 1,3-butylene glycol 5.0, Flor de Manita extract 0.1, dl- α -tocopherol 0.01, Et alc. 5.0, preservatives 0.2, perfumes 0.1, 2% xanthan gum 20.0, and purified water to 100 parts.

L12 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1984:428111 CAPLUS

DOCUMENT NUMBER: 101:28111

ORIGINAL REFERENCE NO.: 101:4373a, 4376a

TITLE: Cosmetic preparations promoting the trophism of the skin and of the related hair follicles

INVENTOR(S): Gazzani, Giovanni

PATENT ASSIGNEE(S): CRINOS Industria Farmacobiologica S.p.A., Italy

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 107885	A1	19840509	EP 1983-201530	19831025 <--
EP 107885	B1	19870729		
R: AT, BE, DE, GB, NL, SE				
AT 28561	T	19870815	AT 1983-201530	19831025 <--
BR 8305952	A	19840605	BR 1983-5952	19831027 <--
CH 655653	A5	19860515	CH 1983-5823	19831027 <--

FR 2535201	A1	19840504	FR 1983-17274	19831028 <--
FR 2535201	B1	19870703		
JP 59130207	A	19840726	JP 1983-201128	19831028 <--
JP 63048244	B	19880928		
CA 1213522	A1	19861104	CA 1983-439958	19831028 <--
IL 70086	A	19861231	IL 1983-70086	19831030 <--
US 5053230	A	19911001	US 1987-133199	19871215 <--

PRIORITY APPLN. INFO.:

IT 1982-23994	A	19821029
IT 1983-22047	A	19830713
EP 1983-201530	A	19831025
US 1983-545674	B1	19831025

AB A cosmetic preparation consists of an efficacious amount of a nutrient medium for

the in vivo culture of isolated human epithelial cells and a related amount of borine fetus serum. The preparation is active as a revitalizing agent for the skin, as antiwrinkle agent and promotes hair growth. The activity of the nutrient medium comprising amino acids, vitamins, etc., is further enhanced by adding exts. from connective tissues of animal organs which contain mainly mucopolysaccharides. Thus, a powder nutrient medium was prepared containing various amino acids, vitamins, uracil [66-22-8] and other materials. An antiwrinkle, moisturizing cream was prepared containing the medium 0.4, serum of bovine fetus 2.5, polyethylene glycol stearate 5.0, stearin 6.5, lanolin oil 6, squalene 2, spermacetic 8, preservatives and perfume (small amount) and water to 100 g.

L12 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1955:25529 CAPLUS

DOCUMENT NUMBER: 49:25529

ORIGINAL REFERENCE NO.: 49:4945h-1,4946a

TITLE: Cosmetological investigation on the juices of fodder plants. I. Composition and cutaneous action of alfalfa liquid

AUTHOR(S): Rovesti, Paolo; Variati, Gian Luigi

CORPORATE SOURCE: Lab. recherches inst. derives vegetaux, Milan

SOURCE: Industries Parfum. (1954), 9, 344-5

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB Twenty-five kg. of green liquid obtained from a quintal of alfalfa contained dry residue 14.2, crude protein 4.74, carbohydrates 3.12, fats 1.53, cellulose material in suspension 0.08, inorg. matter 4.92, CaCO₃ 0.82, P 0.31, Fe 0.032, and chlorophyll 0.07%, choline 490, vitamin E 192, vitamin K 750, riboflavin 8, ascorbic acid 25, thiamine 212, nicotinic acid 23, and pantothenic acid 19 mg., carotene 115,000 I.U., alanine 0.085, valine 0.120, leucine 0.091, serine 0.132, tyrosine 0.011, phenylalanine 0.028, arginine 0.252, lysine 0.060, and tryptophan 0.273%. The inorg. salts consisted of CaO 41.3, K₂O 22.6, Na₂O 1.9, MgO 4.8, SiO₂ 8.9, NaCl 2.9, H₃PO₄ 8.2, and H₂SO₄ 5.4%. Evaporation of the liquid gave 5.8 kg. of a stable powder containing crude protein 45.12, fats 4.1, inorg. salts 18.10, and extractable nitrogenous materials 30.52%. This product has beneficial cosmetic effects upon the skin.

L12 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1953:12861 CAPLUS

DOCUMENT NUMBER: 47:12861

ORIGINAL REFERENCE NO.: 47:2295a-e

TITLE: Some aspects of phosphorus metabolism in bone marrow. II. Changes in the content of phosphorus compounds and reducing substances in bone marrow and spleen, caused by ionizing radiation and other factors which depress the function of blood-forming tissue

AUTHOR(S): Lutwak-Mann, Cecilia

CORPORATE SOURCE: Univ. Cambridge, UK
SOURCE: Biochemical Journal (1952), 52, 356-64
CODEN: BIJOAK; ISSN: 0264-6021
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 46, 1124c. With suitably graded x-ray doses it was possible to produce a major breakdown of nucleic acid in the bone marrow and spleen without significantly affecting the lipide P content. The nucleic acid P is generally much more reactive than the lipide P towards a variety of agents. The changes in nucleic acid P were always accompanied by a fall in the content of ascorbic acid (possibly also of glutathione, but this is not yet completely established). The decline in the ascorbic acid content of the bone marrow, and to a smaller extent of the spleen, results not only from irradiation but also from the action of chemically unrelated substances (mustard gas, aminopterin, or colchicine). Blood-forming tissue contains 3 reducing substances (ascorbic acid, glutathione, and ergothioneine). A high fat, carbohydrate-free diet, which is adequate in protein and total calories, but failed to support growth, induced profound though reversible changes in the nucleic acid and lipide P of the bone marrow. Arbitrarily, the stage 7 days after exposure to 600 r. x-rays has been chosen to establish the extent of recovery of nucleic acid P in the bone marrow and spleen. Treatment of the exptl. animals (rats) with muscle or yeast adenylic acid, before and after irradiation, indicated that these substances (but not inosinic acid) delay the recovery of nucleic acid P and ascorbic acid in bone marrow and spleen, nor was any effect noted as the result of mild burns of a limited skin area. The folic acid antagonists, aminopterin and amethopterin, selectively affected the bone marrow but not the spleen, and colchicine acted in a similar manner but to a smaller extent. Mustard sulfoxide potentiated by dimethyldithiocarbamate, like x-rays, acted on both bone marrow and spleen. Prolonged administration of amidopyrine had no marked effect on rat bone marrow or spleen.

L12 ANSWER 13 OF 15 USPATFULL on STN
ACCESSION NUMBER: 2004:221921 USPATFULL
TITLE: Method for increasing hair growth
INVENTOR(S): Gan, David C., Huntington Sta., NY, UNITED STATES
Hawkins, Geoffrey, Penn Valley, PA, UNITED STATES
Mammone, Thomas, Farmingdale, NY, UNITED STATES
Presti, Richard, East Meadow, NY, UNITED STATES
Sparacio, Rose Maire, Manorville, NY, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 20040171693	A1	20040902	<--
APPLICATION INFO.:	US 2004-786847	A1	20040225	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-495915P	20030818 (60)
	US 2003-451193P	20030228 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: THE ESTEE LAUDER COS, INC, ATTN: KAREN A. LOWNEY, 125 PINELAWN ROAD, MELVILLE, NY, 11747
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 616

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method for stimulating hair follicle growth, which comprises applying a composition containing a follicle stimulating effective amount of a creatine compound. The method can be

used to treat and prevent conditions such as male pattern baldness, hair loss due to aging, or hair loss due to chemotherapy or drug exposure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 14 OF 15 USPATFULL on STN
ACCESSION NUMBER: 2002:88231 USPATFULL
TITLE: Methods and compositions for assaying analytes
INVENTOR(S): Yuan, Chong-Sheng, San Diego, CA, United States
PATENT ASSIGNEE(S): General Atomics, San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6376210	B1	20020423	<--
APPLICATION INFO.:	US 1999-347878		19990706 (9)	
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	GRANTED			
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu			
ASSISTANT EXAMINER:	Saidha, Tekchand			
LEGAL REPRESENTATIVE:	Morrison & Foerster LLP			
NUMBER OF CLAIMS:	16			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)			
LINE COUNT:	9004			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for assaying analytes, preferably, small molecule analytes. Assay methods that employ, in place of antibodies or molecules that bind to target analytes or substrates, modified enzymes, called substrate trapping enzymes. These modified enzymes retain binding affinity or have enhanced binding affinity for a target substrate or analyte, but have attenuated catalytic activity with respect to that substrate or analyte. The modified enzymes are also provided. In particular, a mutant S-adenosylhomocysteine (SAH) hydrolases, substantially retaining binding affinity or having enhanced binding affinity for Hcy or SAH but having attenuated catalytic activity, are provided. Also provided are methods, combinations, kits and articles of manufacture for assaying analytes, preferably small molecule analytes such as inorganic ions, amino acids (e.g., homocysteine), peptides, nucleosides, nucleotides, oligonucleotides, vitamins, monosaccharides (e.g., glucose), oligosaccharides, lipids (e.g., cholesterol), organic acids (e.g., folate species, bile acids and uric acids).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 15 OF 15 USPATFULL on STN
ACCESSION NUMBER: 91:79784 USPATFULL
TITLE: Cosmetic preparations for promoting trophism of the skin and of related hair follicles
INVENTOR(S): Gazzani, Giovanni, Appiano Gentile, Italy
PATENT ASSIGNEE(S): Crinos Industria Farmacobiologica S.p.A., Como, Italy (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5053230		19911001	<--
APPLICATION INFO.:	US 1987-133199		19871215 (7)	
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1983-545674, filed on 25 Oct 1983, now abandoned			

NUMBER	DATE
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ACCESSION NUMBER: 2007:553554 CAPLUS
 DOCUMENT NUMBER: 146:506934
 TITLE: Liquid skin compositions stably containing glutathione, and skin-whitening and skin-beautifying compositions
 INVENTOR(S): Matsuda, Kosuke; Matsuda, Tomotake; Okuda, Yoshinori; Iwasaki, Hiroyuki
 PATENT ASSIGNEE(S): Vesubio K. K., Japan; Cosmetics Roland K. K.
 SOURCE: Jpn. Tokkyo Koho, 14pp.
 CODEN: JTXFFF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 3919123	B1	20070523	JP 2005-373497	20051226
JP 2007176798	A	20070712		

PRIORITY APPLN. INFO.: JP 2005-373497 20051226
 AB It is intended to provide a liquid skin composition containing glutathione, especially reduced glutathione, with improved storage stability of glutathione.
 Disclosed is a liquid skin composition containing whey fraction, molasses fraction, and glutathione, wherein the molasses fraction is obtained by extraction with an alc. or an alc./water mixture and decoloration thereof. A skin composition further containing carboxylic acid, skin-whitening component, and/or skin-beautifying agent is also disclosed. For example, a skin composition containing glutathione 1, cattle colostrum whey fraction 5, active carbon-treated molasses ethanol extract 5, ascorbic acid, sodium ascorbate, and water balance to 100 % was formulated, and tested for the storage stability.
 TI Liquid skin compositions stably containing glutathione, and skin-whitening and skin-beautifying compositions
 AB . . . obtained by extraction with an alc. or an alc./water mixture and decoloration thereof. A skin composition further containing carboxylic acid, skin-whitening component, and/or skin-beautifying agent is also disclosed. For example, a skin composition containing glutathione 1, cattle colostrum whey fraction 5, . . .
 IT Phellodendron
 (barks, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
 IT Rice
 (bran, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
 IT Fagus
 (buds, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
 IT Chicken
 Gallus gallus
 (combs, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
 IT Allium sativum
 Asparagus
 Asparagus officinalis
 Bifidobacterium bifidum
 Blood serum
 Cassia nomame
 Chamomile
 Coffea
 Crataegus

Cydonia speciosa
Eucalyptus
Ficus awkeotsang
Ganoderma lucidum
 Garlic
Ginkgo
Glycyrrhiza
 Grape
 Guava
Humulus lupulus
 Lactic acid bacteria
Lilium longiflorum
Lycopersicon esculentum
Milletia reticulata
 Molasses
Ononis spinosa
Paeonia lactiflora
Panax
 Pea
Pisum sativum
 Placenta
Psidium guajava
 Raspberry
Rosa multiflora
Rosmarinus officinalis
Saxifraga
 Seaweed
Siraitia grosvenorii
Sophora flavescens
 Soybean products
 Spleen
Swertia japonica
 Tomato
Vitis vinifera
 Whey
 Yeast

- (exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT *Rosa rugosa*
(flower buds, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT *Inula japonica*
(flowers, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT *Rosa*
(fruits, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT *Triticum aestivum*
(germ, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Carboxylic acids, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hydroxy; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT *Arctostaphylos uva-ursi*
 Tea products
 (leaves, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Cosmetics and personal care products
 Royal jelly
 Skin-lightening cosmetics
 Wrinkle-preventing cosmetics

- (liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Carboxylic acids, biological studies
Carotenes, biological studies
DNA
Hydroquinones
Nucleic acids
RNA
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(molasses extraction solvent; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Cicadidae
(periostracum; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Bran
(rice, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Acanthopanax
(root barks, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Ampelopsis japonica
Asiasarum
Scutellaria
Sophora
(roots, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT Bos taurus
Capra hircus
Cattle
Colostrum
Goat
Human
Ovis aries
Sheep
Sus scrofa domestica
Swine
(whey exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT 7440-44-0, Activated carbon, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(activated, decoloratio of molasses exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT 83-75-0, Euquinine
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(coix, exts.; liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)
- IT 50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, biological studies 50-81-7D, L-Ascorbic acid, alkyl esters 56-65-5, Adenosine triphosphate, biological studies 61-19-8, Adenosine monophosphate, biological studies 69-72-7, Salicylic acid, biological studies 69-89-6, Xanthine 70-18-8, Glutathione, biological studies 73-40-5, Guanine 79-14-1, Glycolic acid, biological studies 108-46-3, Resorcin, biological studies 110-15-6, Succinic acid, biological studies 134-03-2, Sodium ascorbate 331-39-5, Caffeic acid 463-40-1, α -Linolenic acid 481-49-2, Cepharanthin 497-76-7, Arbutin 506-26-3, γ -Linolenic acid 551-15-5, Liquiritin 1135-24-6,

Ferulic acid 5041-81-6, IsoLiquiritin 6915-15-7, Malic acid 9067-32-7, Sodium hyaluronate 10417-94-4, Eicosapentaenoic acid 56939-67-4D, derivs. 59870-68-7, Glabridin 60008-03-9, Glabrene 125913-31-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(liquid skin compns. stably containing glutathione, and skin-whitening and skin-beautifying compns.)

IT 64-17-5, Ethanol, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(molasses extraction solvent; liquid skin compns. stably containing glutathione,
and skin-whitening and skin-beautifying compns.)

L13 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2006:823381 CAPLUS

DOCUMENT NUMBER: 145:256151

TITLE: Topical delivery of trace metals for enzyme modulation

INVENTOR(S): Gupta, Shyam K.

PATENT ASSIGNEE(S): Bioderm Research, USA

SOURCE: U.S. Pat. Appl. Publ., 24pp., Cont.-in-part of U.S. Ser. No. 306,948.

CODEN: USXXCO

DOCUMENT TYPE: Patent

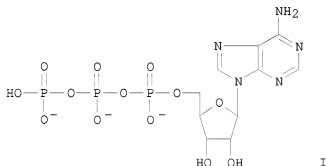
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060183708	A1	20060817	US 2006-308290	20060315
US 20040105894	A1	20040603	US 2002-306948	20021129
US 20070189992	A1	20070816	US 2007-676284	20070217
PRIORITY APPLN. INFO.:			US 2002-306948	A2 20021129
			US 2004-710011	A2 20040611
			US 2006-308290	A2 20060315

GI



AB The present invention relates to a method for topical delivery of trace metals for the modulation of certain metalloenzymes. The method of topical delivery of the present invention comprises; (i) mixing of a trace metal salt of a phosphorylated nitrogen heterocyclic base complexed with a chelating agent (I), and (ii) a carrier, and (iii) topical application of said mixture. The modulation of metalloenzymes such as Superoxide Dismutase, Elastase, Tyrosinase, Matrix metalloproteases, and Ubiquitin-Proteasome

pathway by the methods of the present invention is useful for providing anti-inflammatory, skin whitening, wrinkles reduction, skin aging control, cellular antioxidant, acne control, hair growth modulation, and skin damage control benefits.

AB . . . Dismutase, Elastase, Tyrosinase, Matrix metalloproteases, and Ubiquitin-Proteasome pathway by the methods of the present invention is useful for providing anti-inflammatory, skin whitening, wrinkles reduction, skin aging control, cellular antioxidant, acne control, hair growth modulation, and skin damage control benefits.

IT Cosmetics
(skin-lightening; topical delivery of trace metals for enzyme modulation)

IT 54-47-7, Pyridoxal-5-phosphate 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 58-64-0, Adenosine diphosphate, biological studies 59-43-8D, Vitamin B1, phosphorylated derivs. 60-00-4, EDTA, biological studies 61-19-8, Adenosine monophosphate, biological studies 64-17-5, Alcohol, biological studies 65-86-1, Orotic acid 70-18-8, Glutathione, biological studies 77-92-9, Citric acid, biological studies 98-98-6, Picolinic acid 107-21-1, 1,2-Ethanediol, biological studies 111-90-0 526-95-4, D-Gluconic acid 532-40-1, Thiamine phosphate 2163-42-0, Methylpropanediol 22457-89-2, Benfotiamine 25322-68-3, Polyethylene glycol 25618-55-7, Polyglycerol 59113-36-9, Diglycerol
RL: COS (Cosmetic use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical delivery of trace metals for enzyme modulation)

L13 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1173832 CAPLUS
DOCUMENT NUMBER: 143:426980
TITLE: Skin compositions containing Punica granatum flower extracts
INVENTOR(S): Yamahara, Joji
PATENT ASSIGNEE(S): Sakamoto Yakusoen Y. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005306831	A	20051104	JP 2004-151064	20040420
PRIORITY APPLN. INFO.:			JP 2004-151064	20040420

AB The invention provides a skin composition characterized by containing Punica granatum flower extract as fibroblast-derived elastase inhibitor, wherein the composition has anti-aging and skin-lightening effect.
Skin compns. containing further specified components are also disclosed. For example, a skin lotion containing Punica granatum flower extract 1, glycerin 3, 1,3-butyleneglycol 2, polyethyleneglycol 2, ethanol 5, Me paraben 0.1, xanthan gum 0.1, citric acid 0.01, sodium citrate 0.03, trimethylglycine 1, and water balance to 100 % was formulated.

AB . . . a skin composition characterized by containing Punica granatum flower extract as fibroblast-derived elastase inhibitor, wherein the composition has anti-aging and skin-lightening effect. Skin compns. containing further specified components are also disclosed. For example, a skin lotion containing Punica granatum flower extract. . .

IT Cosmetics
(skin-lightening; skin compns. containing punica granatum flower extract and other active components)

IT 50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, L-Ascorbic acid, biological studies 50-99-7, Glucose, biological studies 51-35-4, Hydroxyproline 51-84-3, Acetylcholine, biological studies 52-53-9, Verapamil 52-90-4, L-Cysteine, biological studies 53-86-1, Indomethacin 56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological studies 56-45-1, L-Serine, biological studies 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 56-84-8, L-Aspartic acid, biological studies 56-85-9, L-Glutamine, biological studies 56-86-0, L-Glutamic acid, biological studies 56-87-1, L-Lysine, biological studies 56-89-3, Cystine, biological studies 57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 57-55-6, Propylene glycol, biological studies 57-88-5, Cholesterol, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-64-0, ADP, biological studies 58-86-6, Xylose, biological studies 59-98-3, Tolazoline 60-18-4, L-Tyrosine, biological studies 60-32-2 60-92-4, Cyclic AMP 61-19-8, AMP, biological studies 61-68-7, Mefenamic acid 63-68-3, L-Methionine, biological studies 63-91-2, L-Phenylalanine, biological studies 64-17-5, Ethanol, biological studies 65-71-4, Thymine 69-65-8, Mannitol 69-79-4, Maltose 69-89-6, Xanthine 70-18-8, Glutathione, biological studies 70-26-8, Ornithine 70-47-3, L-Asparagine, biological studies 71-00-1, L-Histidine, biological studies 71-30-7, Cytosine 72-18-4, L-Valine, biological studies 72-19-5, L-Threonine, biological studies 73-22-3, L-Tryptophan, biological studies 73-24-5, Adenine, biological studies 73-32-5, L-Isoleucine, biological studies 73-40-5, Guanine 74-79-3, L-Arginine, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 81-13-0, Panthenol 87-69-4, Tartaric acid, biological studies 87-99-0, Xylitol 97-59-6, Allantoin 98-79-3, Pyrrolidone carboxylic acid 99-20-7, Trehalose 107-88-0, 1,3Butyleneglycol 108-46-3, 1,3-Benzenediol, biological studies 110-15-6, Succinic acid, biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalane 111-02-4, Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol 115-77-5, Pentaerythritol, biological studies 122-48-5, Zingerone 123-31-9, Hydroquinone, biological studies 128-37-0, Dibutylhydroxytoluene, biological studies 134-03-2, Sodium ascorbate 137-66-6, L-Ascorbyl palmitate 146-14-5, Flavin adenine dinucleotide 147-85-3, L-Proline, biological studies 149-32-6, Erythritol 149-91-7, Gallic acid, biological studies 298-57-7, Cinnarizine 331-39-5, Caffeic acid 372-75-8, Citrulline 404-86-4, Capsaicine 456-59-7, Cycandelate 463-40-1, α -Linolenic acid 481-49-2, Cepharanthine 489-84-9, Guaiazulene 497-76-7, Arbutin 506-26-3, γ -Linolenic acid 544-62-7, Batyl alcohol 544-63-8, Myristic acid, biological studies 551-15-5, Liquiritin 585-88-6, Maltitol 593-31-7, Selachylalcohol 1135-24-6, Ferulic acid 1190-94-9, Hydroxylysine 1197-18-8, Tranexamic acid 1405-86-3, Glycylrrhizinic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 2444-46-4, Nonyllic acid vanillyl amide 2568-33-4, Isopreneglycol 3081-61-6, Theanine 5041-81-6, IsoLiquiritin 5743-27-1, Calcium ascorbate 6556-11-2, Inositol hexanicotinate 6915-15-7, Malic acid 7665-99-8, Cyclic GMP 7678-95-7, Ethenyl estradiol 8029-68-3, Ichthammol 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9004-73-3, Polymethylsiloxane 9005-12-3, Methylphenylpolysiloxane 9005-32-7, Alginate acid 9005-49-6, Heparin, biological studies 9007-28-7, Chondroitin sulfate 9050-30-0 9056-36-4, Keratan sulfate 9067-32-7, Sodium hyaluronate 10417-94-4, Eicosapentaenoic acid 11042-64-1, γ -Orizanol 11103-57-4, Vitamin A 12001-76-2, Vitamin B 15307-79-6, Sodium diclofenac 15421-15-5, Potassium ascorbate 15431-40-0, Magnesium ascorbate 15687-27-1, Ibuprofen 22071-15-4,

Ketoprofen 24967-94-0, Dermatan sulfate 25013-16-5 25395-66-8,
 L-Ascorbyl stearate 28474-90-0, L-Ascorbyl dipalmitate 28518-50-5,
 L-Ascorbic acid monooleate 29710-31-4, Cetyl octanoate 32381-28-5,
 N,N'-Diacetylcystine dimethyl ester 35602-69-8, Cholesteryl stearate
 36653-82-4, Cetanol 56939-67-4 59870-68-7, Glabridin 60008-03-9,
 Glabrene 74438-74-7, L-Ascorbic acid distearate 92353-27-0, L-Ascorbic
 acid dioleate 103000-77-7, Glycyrrhizic acid 108910-78-7
 110369-28-3 110369-30-7 110369-32-9 110369-35-2 110369-36-3
 122715-02-0, α -Borneol 123638-49-3, Aluminum ascorbate
 125913-31-7 128808-19-5 128808-20-8 128808-21-9 128808-22-0,
 L-Ascorbic acid sulfate sodium salt 128808-23-1 128808-24-2
 128808-25-3 128808-26-4 129499-78-1, L-Ascorbic acid glucoside
 138069-07-5 161436-56-2, L-Ascorbyl tetraisoalmitate 185323-25-5
 404566-00-3, L-Ascorbic acid Isopalmitate 745794-24-5 745794-25-6
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (skin compns. containing punica granatum flower extract and other active
 components)

L13 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2004:993109 CAPLUS

DOCUMENT NUMBER: 141:415634

TITLE: Skin compositions containing anti-aging peptides and
 polyhydric alcohols

INVENTOR(S): Hirano, Nobuyuki; Adachi, Katsuyoshi; Tada, Takahiro;
 Ito, Shio; Aramaki, Kaname

PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan; Toshin
 Kagaku Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2004323401	A	20041118	JP 2003-118442	20030423
PRIORITY APPLN. INFO.:				JP 2003-118442	20030423
AB	The invention relates to a skin composition containing Glu-Glu-Met-Gln-Arg-Arg peptide and polyhydric alc. having ≥ 2 OH groups, wherein the composition shows improved effect of the peptide. Skin compns. containing the hexapeptide, polyhydric alcs., and other active components are also disclosed. A cosmetic lotion containing Glu-Glu-Met-Gln-Arg-Arg peptide solution (Argireline solution) 10, glycerin 10, Me paraben 0.2, and water balance to 100% was formulated.				
IT	Cosmetics (skin-lightening; skin compns. containing anti-aging peptides and polyhydric alcs. with other defined active components)				
IT	50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol, biological studies 50-81-7, Ascorbic acid, biological studies 50-99-7, Glucose, biological studies 51-35-4, Hydroxyproline 51-84-3, Acetylcholine, biological studies 52-53-9, Verapamil 52-90-4, Cystein, biological studies 53-86-1, Indomethacin 56-40-6, Glycine, biological studies 56-41-7, Alanine, biological studies 56-45-1, Serine, biological studies 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 56-84-8, Aspartic acid, biological studies 56-85-9, Glutamine, biological studies 56-86-0, Glutamic acid, biological studies 56-87-1, Lysine, biological studies 57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological studies 57-48-7, Fructose, biological studies 57-55-6, Propylene glycol,				

biological studies 57-88-5, Cholesterol, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-64-0, Adenosine diphosphate, biological studies 58-86-6, Xylose, biological studies 59-98-3, Tolazoline 60-18-4, Tyrosine, biological studies 60-32-2, α -Aminocaproic acid 60-92-4, Cyclic AMP 61-19-8, Adenosine monophosphate, biological studies 61-68-7, Mephénamic acid 63-68-3, Methionine, biological studies 63-91-2, Phenylalanine, biological studies 64-17-5, Ethanol, biological studies 65-71-4, Thymine 69-65-8, Mannitol 69-79-4, Maltose 69-89-6, Xanthin 70-18-8, Glutathione, biological studies 70-26-8, Ornithine 70-47-3, Asparagine, biological studies 71-00-1, Histidine, biological studies 71-30-7, Cytosine 72-18-4, Valine, biological studies 72-19-5, Threonine, biological studies 73-22-3, Tryptophan, biological studies 73-24-5, Adenine, biological studies 73-32-5, Isoleucine, biological studies 73-40-5, Guanine 74-79-3, Arginine, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 81-13-0, Panthenol 87-69-4, Tartaric acid, biological studies 87-99-0, Xylitol 97-59-6, Allantoin 98-79-3, Pyrrolidone carboxylic acid 99-20-7, Trehalose 107-43-7, Trimethyl glycine 107-88-0, 1,3 Butylene glycol 108-46-3, 1,3-Benzenediol, biological studies 110-15-6, Succinic acid, biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalene 111-02-4, Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol 115-77-5, Pentaerythritol, biological studies 122-48-5, Gingerone 123-31-9, Hydroquinone, biological studies 128-37-0, Dibutylhydroxytoluene, biological studies 137-66-6, L-Ascorbyl palmitate 142-18-7, Glyceryl monolaurate 146-14-5 147-85-3, Proline, biological studies 149-32-6, Erythritol 149-91-7, Gallic acid, biological studies 298-57-7, Cinnarizine 331-39-5 372-75-8, Citrulline 404-86-4, Capsaicine 456-59-7, Cyclandelate 463-40-1, α -Linolenic acid 481-49-2, Cepharanthine 489-84-9, Guaiazulene 497-76-7, Arbutin 506-26-3, γ -Linolenic acid 544-62-7, Batyl alcohol 544-63-8, Myristic acid, biological studies 551-15-5, Liquiritin 585-88-6, Maltitol 593-31-7, Selachyl alcohol 1135-24-6, Ferulic acid 1190-94-9, Hydroxylysine 1197-18-8, Tranexamic acid 1338-41-6, Sorbitan monostearate 1405-86-3, Glycyrrhizinic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 2444-46-4 2495-84-3, Ascorbylolate 2568-33-4, Isoprene glycol 3081-61-6, Theanine 5041-81-6, Isoliquiritin 6556-11-2, Inositol hexanicotinate 6915-15-7, Malic acid 7317-67-1 7360-38-5, Glyceryl tri-2-ethyl hexanoate 7665-99-8, Cyclic GMP 7678-95-7, Ethenyl estradiol 8029-68-3, Ichthammol 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9004-73-3, PolyMethylsiloxane 9005-12-3, Methyl phenyl polysiloxane 9005-32-7, Alginic acid 9005-49-6, Heparin, biological studies 9005-67-8, Polyoxyethylene sorbitan monostearate 9007-28-7, Chondroitin sulfate 9050-30-0 9056-36-4, Keratan sulfate 9067-32-7, Sodium hyaluronate 9082-07-9, Chondroitin sulfate sodium salt 10417-94-4, Eicosapentaenoic acid 11042-64-1, γ -Oryzanol 11103-57-4, Vitamin A 12001-76-2, Vitamin B 15307-79-6, Sodium diclofenac 15687-27-1, Ibuprofen 17087-29-5, Trimethylalanine 18469-44-8 22071-15-4, Ketoprofen 24967-94-0, Dermatol sulfate 25013-16-5, Butylated hydroxyanisole 25395-66-8, L-Ascorbyl stearate 28474-90-0, L-Ascorbyl dipalmitate 29710-31-4, Cetyl octanoate 31566-31-1, Glycerin monostearate 32381-28-5, N,N'-Diacetylcystine dimethyl ester 35602-69-8, Cholesteryl stearate 36653-82-4, Cetanol 56939-67-4 59870-68-7, Glabridin 60008-03-9, Glabrene 68797-35-3, Dipotassium glycyrrhizinate 74438-74-7, L-Ascorbic acid distearate 83826-43-1, Octyl dodecyl myristate 92353-27-0, L-Ascorbic acid dioleate 103000-77-7, Glycyrrhizic acid 108910-78-7 110369-28-3 110369-30-7 110369-32-9 110369-35-2 110369-36-3 121123-79-3 122715-02-0, α -Borneol 123638-49-3 125913-31-7 128808-19-5 128808-20-8 128808-21-9 128808-22-0, L-Ascorbic acid sulfate sodium salt 128808-23-1 128808-24-2 128808-25-3 128808-26-4 129499-78-1,

L-Ascorbic acid glucoside 138069-07-5 161436-56-2 185323-25-5
 404566-00-3, L-Ascorbic acid isopalmitate 616204-22-9, Argireline
 745794-24-5 745794-25-6
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (skin comps. containing anti-aging peptides and polyhydric alcs. with
 other defined active components)

L13 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:695458 CAPLUS
 DOCUMENT NUMBER: 141:230304
 TITLE: Skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing
 shellfish collagens type I (α1)3
 INVENTOR(S): Tada, Takahiro; Tsuji, Nobuhide; Adachi, Katsuyoshi
 PATENT ASSIGNEE(S): Mikimoto Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2004238386	A	20040826	JP 2003-118440	20030423
PRIORITY APPLN. INFO.:				JP 2002-358821	A 20021211
AB	Cosmetics and (quasi)drugs contain (derivs. of) shellfish collagen type I (α1)3 and skin moisturizers, softening agents, cell activators, anti-inflammatory agents, antioxidants, circulation promoters, and/or skin-lightening agents. Thus, a liquid cosmetic was formulated containing pearl oyster collagen type I (α1)3 and Na hyaluronate.				
TI	Skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3				
AB	. . . (derivs. of) shellfish collagen type I (α1)3 and skin moisturizers, softening agents, cell activators, anti-inflammatory agents, antioxidants, circulation promoters, and/or skin-lightening agents. Thus, a liquid cosmetic was formulated containing pearl oyster collagen type I (α1)3 and Na hyaluronate.				
ST	cosmetic drug shellfish collagen type I alpha1; skin moisturizer lightening antiaging cosmetic oyster collagen				
IT	Polysiloxanes, biological studies RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Me Ph; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)				
IT	Polysiloxanes, biological studies RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Me; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)				
IT	Cosmetics (antiaging; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)				
IT	Coffee products (beans, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)				
IT	Oryza sativa				

(bran, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Fagus crenata
(bud, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Head and Neck
(comb, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Blood serum
(deproteinated, extract; skin moisturizing, lightening , and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Ampelopsis japonica
Asiasarum
Asparagus officinalis
Bifidobacterium
Blood
Cassia nomame
Chaenomeles lagenaria
Chiranthodendron pentadactylon
Coix lacryma-jobi
Crataegus cuneata
Crocus sativus
Eucalyptus
Fish
Glycine max
Humulus lupulus
Inula
Lactic acid bacteria
Lycopersicon esculentum
Molasses
Mollusca
Mucuna birdwoodiana
Ononis
Paeonia
Pisum sativum
Placenta
Psidium
Raspberry
Rosa multiflora
Rosa rugosa
Scutellaria baicalensis
Seaweed
Spleen
Vitis vinifera
Yeast
(extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Momordica grosvenorii
(fruit, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Triticum aestivum
(germ, extract; skin moisturizing, lightening, and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (α1)3 and other active ingredients)

IT Tea products
(leaves, extract; skin moisturizing, lightening, and

antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Fats and Glyceridic oils, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (macadamia nut; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Polysiloxanes, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (modified; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Cosmetics
 (moisturizers; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Polyethers, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (perfluoro; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Cicada
 (periostracum, extract; skin moisturizing, lightening,
 and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Sterols
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (phyto-; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Fluoropolymers, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (polyether-, perfluoro; skin moisturizing, lightening
 , and antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Alcohols, biological studies
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (polyhydric; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Circulation
 (promoters; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Silk
 (proteins; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Sophora
 (radix, extract; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Bran
 (rice, extract; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I (a1)3 and other active ingredients)

IT Acanthopanax
 (root bark, extract; skin moisturizing, lightening,
 and antiaging cosmetics and (quasi)drugs containing shellfish collagens
 type I (a1)3 and other active ingredients)

IT Anti-inflammatory agents
 Antioxidants
 Beeswax
 Egg, poultry
 Glycyrrhiza glabra
 Honey
 Inflammation
 Matricaria recutita
 Oyster
 Royal jelly
 Saxifraga stolonifera
 Shellfish
 (skin moisturizing, lightening, and antiaging
 cosmetics and (quasi)drugs containing shellfish collagens type I
 (a1)3 and other active ingredients)

IT Amino acids, biological studies
 Carbohydrates, biological studies
 Carboxylic acids, biological studies
 Carotenes, biological studies
 Ceramides
 Cyclosiloxanes
 DNA
 Elastins
 Esters, biological studies
 Fatty acids, biological studies
 Fibronectins
 Glycolipids
 Hemoglobins
 Hormones, animal, biological studies
 Jojoba oil
 Keratins
 Lactoferrins
 Lanolin
 Mucins
 Mucopolysaccharides, biological studies
 Olive oil
 Paraffin oils
 Petrolatum
 Phospholipids, biological studies
 Protein hydrolyzates
 Proteins
 RNA
 Safflower oil
 Waxes
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (skin moisturizing, lightening, and antiaging
 cosmetics and (quasi)drugs containing shellfish collagens type I
 (a1)3 and other active ingredients)

IT Cosmetics
 (skin-lightening; skin moisturizing,
 lightening, and antiaging cosmetics and (quasi)drugs containing
 shellfish collagens type I (a1)3 and other active ingredients)

IT Cantharis
 (tincture; skin moisturizing, lightening, and
 antiaging cosmetics and (quasi)drugs containing shellfish collagens type I
 (a1)3 and other active ingredients)

IT Collagens, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)

(type I, (a1)2a2; skin moisturizing,
lightening, and antiaging cosmetics and (quasi)drugs containing
shellfish collagens type I (a1)3 and other active ingredients)

IT Collagens, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)

(type I, (a1)3; skin moisturizing, lightening
, and antiaging cosmetics and (quasi)drugs containing shellfish collagens
type I (a1)3 and other active ingredients)

IT Lillium

(white, extract; skin moisturizing, lightening, and
antiaging cosmetics and (quasi)drugs containing shellfish collagens type I
(a1)3 and other active ingredients)

- IT 50-21-5, Lactic acid, biological studies 50-28-2, Estradiol, biological
studies 50-33-9, Phenylbutazone, biological studies 50-70-4, Sorbitol,
biological studies 50-81-7, L-Ascorbic acid, biological studies
50-81-7D, Ascorbic acid, alkyl esters 50-99-7, Glucose, biological
studies 51-35-4, Hydroxyproline 51-84-3, Acetylcholine, biological
studies 52-53-9, Verapamil 52-90-4, Cysteine, biological studies
53-86-1, Indomethacin 56-40-6, Glycine, biological studies 56-41-7,
Alanine, biological studies 56-45-1, Serine, biological studies
56-65-5, Adenosine triphosphate, biological studies 56-81-5D, Glycerin,
alkyl ethers 56-84-8, Aspartic acid, biological studies 56-85-9,
Glutamine, biological studies 56-86-0, Glutamic acid, biological studies
56-87-1, Lysine, biological studies 56-89-3, Cystine, biological studies
57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological
studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose,
biological studies 57-88-5, Cholesterol, biological studies 58-08-2,
Caffeine, biological studies 58-55-9, Theophylline, biological studies
58-64-0, Adenosine diphosphate, biological studies 58-86-6, Xylose,
biological studies 59-98-3, Tolazoline 60-18-4, Tyrosine, biological
studies 60-32-2, α -Aminocaproic acid 60-92-4, Cyclic AMP
61-19-8, Adenosine monophosphate, biological studies 61-68-7,
Mefenamic acid 63-68-3, Methionine, biological studies 63-91-2,
Phenylalanine, biological studies 64-17-5, Ethanol, biological studies
65-71-4, Thymine 69-65-8, Mannitol 69-79-4, Maltose 69-89-6,
Xanthine 70-18-8, Glutathione, biological studies 70-26-8, Ornithine
70-47-3, Asparagine, biological studies 71-00-1, Histidine, biological
studies 71-30-7, Cytosine 72-18-4, Valine, biological studies
72-19-5, Threonine, biological studies 73-22-3, Tryptophan, biological
studies 73-24-5, Adenine, biological studies 73-32-5, Isoleucine,
biological studies 73-40-5, Guanine 74-79-3, Arginine, biological
studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic
acid, biological studies 81-13-0, Panthenol 87-69-4, Tartaric acid,
biological studies 87-89-8, Inositol 87-99-0, Xylitol 97-59-6,
Allantoin 98-79-3, Pyrrolidonecarboxylic acid 99-20-7, Trehalose
108-46-3, Resorcin, biological studies 110-15-6, Succinic acid,
biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalene
111-02-4, Squalene 112-85-6, Behenic acid 112-92-5, Stearyl alcohol
115-77-5, Pentaerythritol, biological studies 122-48-5, Zingerone
128-37-0, Dibutylhydroxytoluene, biological studies 134-03-2 137-66-6,
L-Ascorbyl palmitate 146-14-5, FAD 147-85-3, Proline, biological
studies 149-32-6, Erythritol 298-57-7, Cinnarizine 331-39-5, Caffeic
acid 372-75-8, Citrulline 404-86-4, Capsaicin 456-59-7, Cyclandelate
463-40-1, α -Linolenic acid 471-53-4, Glycylrhettinic acid
481-49-2, Cepharanthine 489-84-9, Guaiazulene 497-76-7, Arbutin
506-26-3, γ -Linolenic acid 544-62-7, Batyl alcohol 544-63-8,
Myristic acid, biological studies 551-15-5, Liquiritin 585-88-6,
Maltitol 593-31-7, Selachyl alcohol 1135-24-6, Ferulic acid
1190-94-9, Hydroxylysine 1197-18-8, Tranexamic acid 1405-86-3,

Glycyrrhizinic acid 1406-16-2, Vitamin D 1406-18-4, Vitamin E 2444-46-4, Nonyllic vanillylamide 3081-61-6, Theanine 5041-81-6, Isoliquiritin 6556-11-2, Inositol hexanicotinate 6915-15-7, Malic acid 7665-99-8, Cyclic GMP 7678-95-7, Ethenylestradiol 8029-68-3, Ichthammol 9004-53-9, Dextrin 9004-61-9, Hyaluronic acid 9005-32-7, Alginate acid 9005-49-6, Heparin, Biological studies 9007-28-7, Chondroitin sulfate 9050-30-0, Heparan sulfate 9056-36-4, Keratan sulfate 10417-94-4, Eicosapentaenoic acid 11042-64-1, γ -Oryzanol 11103-57-4, Vitamin A 12001-76-2, Vitamin B 15307-79-6, Sodium diclofenac 15687-27-1, Ibuprofen 18779-49-2, L-Ascorbic acid calcium salt 22071-15-4, Ketoprofen 24967-94-0, Dermatol sulfate 25013-16-5, Butylhydroxyanisole 25395-66-8, L-Ascorbyl stearate 27475-47-4, 28474-90-0, L-Ascorbyl dipalmitate 29710-31-4, Cetyl octanoate 32381-28-5, N,N'-Diacetylcystine dimethyl ester 35602-69-8, Cholesteryl stearate 36653-82-4, Cetanol 56939-67-4, L-Ascorbic acid sulfate 59870-68-7, Glabridin 60008-03-9, Glabrene 74438-74-7 92353-27-0 108910-78-7, L-Ascorbic acid phosphate magnesium salt 110369-28-3 110369-30-7 110369-32-9 110369-35-2 110369-36-3 121123-79-3, L-Ascorbic acid potassium salt 122715-02-0, α -Borneol 123638-49-3, L-Ascorbic acid aluminum salt 125913-31-7, L-Ascorbic acid phosphate 128808-19-5 128808-20-8 128808-21-9 128808-22-0, L-Ascorbic acid sulfate sodium salt 128808-23-1, L-Ascorbic acid phosphate aluminum salt 128808-24-2, L-Ascorbic acid phosphate calcium salt 128808-25-3, L-Ascorbic acid phosphate potassium salt 128808-26-4, L-Ascorbic acid phosphate sodium salt 129499-78-1, L-Ascorbic acid glucoside 137995-21-2, L-Ascorbic acid magnesium salt 138069-07-5 161436-56-2, L-Ascorbyl tetraisopalmitate 404566-00-3, L-Ascorbic acid isopalmitate 745794-24-5 745794-25-6 745794-26-7
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (skin moisturizing, lightening, and antiaging
 cosmetics and (quasi)drugs containing shellfish collagens type I
 (a)3 and other active ingredients)

L13 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2004:162578 CAPLUS
 DOCUMENT NUMBER: 140:187005
 TITLE: Antiaging compositions containing ascorbates and
 adenylic acids
 INVENTOR(S): Wakamatsu, Kosaburo; Harano, Fumiki; Koba, Takashige;
 Shinohara, Shigeo
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2004016238	A1	20040226	WO 2003-JP9783	20030801
W: AU, BR, CA, CN, ID, IN, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004067576	A	20040304	JP 2002-228368	20020806
JP 4129574	B2	20080806		
CA 2493496	A1	20040226	CA 2003-2493496	20030801
AU 2003252312	A1	20040303	AU 2003-252312	20030801
EP 1547577	A1	20050629	EP 2003-788027	20030801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				

BR 2003013274	A	20050705	BR 2003-13274	20030801
CN 1674863	A	20050928	CN 2003-818967	20030801
IN 2005DN00392	A	20081205	IN 2005-DN392	20050202
US 20050250710	A1	20051110	US 2005-523605	20050204
PRIORITY APPLN. INFO.:			JP 2002-228368	A 20020806
			WO 2003-JP9783	W 20030801

AB It is intended to provide an antiaging composition by which skin aging can be effectively retarded and, in particular, skin pigmentation can be improved. It is also intended to provide a method of potentiating the antiaging effect of ascorbic acid or its analog. Namely, an antiaging composition characterized by containing (A) at least one member selected from

the

group consisting of ascorbic acid, its derivs. and salts thereof; and (B) a purine nucleic acid-related substance. A method of using (A) at least one member selected from the group consisting of ascorbic acid, its derivs. and salts thereof together with (B) a purine nucleic acid-related substance to thereby potentiate the antiaging effect of the component A. For example, a lotion contained AMP 2, ascorbic acid 2-glucoside 2, 1,3-butylene glycol 2, concentrated glycerin 2, polyoxyethylene sorbitan monolaurate 1, ethanol 5, preservatives q.s., pH modifiers to pH 6.5, and distilled water balance to 100 %.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ST antiaging cosmetic ascorbate adenosine phosphate; skin

lightening cosmetic ascorbate adenosine phosphate

IT Cosmetics

(skin-lightening; antiaging cosmetics containing ascorbate and adenosine phosphate)

IT 50-81-7, L-Ascorbic acid, biological studies 60-92-4, Cyclic adenosine

3',5'-monophosphate 61-19-8, Adenosine 5'-monophosphate,

biological studies 84-21-9, Adenosine 3'-monophosphate

130-49-4, Adenosine 2'-monophosphate 4578-31-8, Adenosine

5'-monophosphate disodium salt 27556-18-9 119588-63-5 129499-78-1,

L-Ascorbic acid 2-glucoside 183476-82-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(antiaging cosmetics containing ascorbate and adenosine phosphate)

L13 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:818240 CAPLUS

DOCUMENT NUMBER: 139:296572

TITLE: Composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation

INVENTOR(S): Kawamura, Mitsuaki; Shinohara, Shigeo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003084485	A1	20031016	WO 2003-JP4247	20030403
W: AU, BR, CA, CN, ID, IN, JP, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
CA 2480080	A1	20031016	CA 2003-2480080	20030403
AU 2003220857	A1	20031020	AU 2003-220857	20030403
AU 2003220857	B2	20090129		
EP 1498101	A1	20050119	EP 2003-715748	20030403

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

BR 2003009127	A	20050201	BR 2003-9127	20030403
CN 1646078	A	20050727	CN 2003-808030	20030403
TW 260225	B	20060821	TW 2003-92108012	20030408
IN 2004DN02911	A	20070525	IN 2004-DN2911	20040928
US 20050222076	A1	20051006	US 2004-510738	20041012

PRIORITY APPLN. INFO.: JP 2002-106300 A 20020409
WO 2003-JP4247 W 20030403

AB It is intended to provide a method of effectively exerting the cell proliferation promoting effect of a purine nucleic acid-related substance. Namely, disclosed are a composition for cell proliferation characterized by containing a purine nucleic acid-related substance and a pyrimidine nucleic acid-related substance; a method of potentiating the cell proliferation promoting effect of a purine nucleic acid-related substance characterized by using a combination of the purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance; and a method of promoting cell proliferation characterized by using a combination of a purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance and applying the same to the skin or mucosa. The effect of adenosine monophosphate disodium salt in combination with uridine monophosphate disodium salt on cultured human keratinocyte proliferation was examined. A cosmetic lotion containing adenosine monophosphate disodium salt 3, uridine monophosphate disodium salt 0.1, polyoxyethylene hydrogenated castor oil 0.7, ethanol 5, glycerin 2, preservative 0.2, fragrance/pH adjuster q.s., and water balance to 100 % was formulated.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Cosmetics
(skin-lightening; composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)

IT 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-96-8, Uridine 58-97-9, Uridine phosphate, biological studies 61-19-8, Adenosine phosphate, biological studies 66-22-8, Uracil, biological studies 68-94-0, Hypoxanthine 73-24-5, Adenine, biological studies 131-99-7, Inosinic acid 951-78-0, Deoxyuridine 964-26-1

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)

L13 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1998:41974 CAPLUS
DOCUMENT NUMBER: 128:106245
ORIGINAL REFERENCE NO.: 128:20735a, 20738a
TITLE: Skin-lightening and antiaging cosmetics

INVENTOR(S): Seiki, Hitoshi; Okano, Yuri
PATENT ASSIGNEE(S): NOEVIR Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10007541	A	19980113	JP 1996-181321	19960620
PRIORITY APPLN. INFO.:			JP 1996-181321	19960620

AB Skin-lightening and antiaging cosmetics comprise: (A) lipoic acid and (B) compds. selected from vitamin A or its derivs., carotenes, riboflavin or its derivs., vitamin B6 or its salts or derivs., cobalamins, vitamin C or its salts or derivs., vitamin E or its derivs., vitamin K, adenosine or its derivs., flavonoids and tannins, in addition to other ingredients.

TI Skin-lightening and antiaging cosmetics

AB Skin-lightening and antiaging cosmetics comprise: (A) lipoic acid and (B) compds. selected from vitamin A or its derivs., carotenes, riboflavin or its derivs., vitamin B6 or its salts or derivs., cobalamins, vitamin C or its salts or derivs., vitamin E or its derivs., vitamin K, adenosine or its derivs., flavonoids and tannins, in addition to other ingredients.

ST skin lightening antiaging cosmetic vitamin; adenosine flavonoid skin lightening antiaging cosmetic; tannin skin lightening antiaging cosmetic

IT Cosmetics
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (antiaging; skin-lightening and antiaging cosmetics)

IT Carotenes, biological studies
 Corrinoids
 Flavonoids
 Tannins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (skin-lightening and antiaging cosmetics)

IT Cosmetics
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (skin-lightening; skin-lightening and antiaging cosmetics)

IT Cosmetics
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (wrinkle-preventing; skin-lightening and antiaging cosmetics)

IT 50-81-7, Vitamin C, biological studies 56-65-5, ATP, biological studies 58-64-0, ADP, biological studies 59-02-9, α -Tocopherol 61-19-8, AMP, biological studies 65-23-6, Pyridoxine 66-72-8, Pyridoxal 68-19-9, Cyanocobalamine 68-26-8, Retinol 79-80-1, 3-DehydroRetinol 83-88-5, Riboflavin, biological studies 85-87-0, Pyridoxamine 116-31-4, Retinal 119-13-1, δ -Tocopherol 120-80-9, 1,2-Benzenediol, biological studies 148-03-8, β -Tocopherol 302-79-4, Retinoic acid 432-70-2, α -Carotene 462-20-4, Dihydrolipoic acid 472-87-7, 3-DehydroRetinal 472-93-5, γ -Carotene 490-46-0, EpiCatechin 490-83-5 1406-18-4, Vitamin E 3884-47-7, Dihydrolipoamide 4159-20-0, 3-DehydroRetinoic acid 7235-40-7, β -Carotene 7616-22-0, γ -Tocopherol 8059-24-3, Vitamin B6 11103-57-4, Vitamin A 12001-79-5, Vitamin K 13422-51-0, Hydroxycobalamine 13422-55-4, Methylcobalamine 125913-31-7, Ascorbic acid phosphate
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (skin-lightening and antiaging cosmetics)

L13 ANSWER 9 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2008:297655 USPATFULL

TITLE: Composition for Prevention or Alleviation of Pigmentation

INVENTOR(S): Harano, Fumiki, Shiga, JAPAN
 Shinohara, Shigeo, Shiga, JAPAN
 Tanaka, Masahiko, Shiga, JAPAN

PATENT ASSIGNEE(S): OTSUKA PHARMACEUTICAL CO., LTD., Tokyo, JAPAN (non-U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080260878	A1	20081023
APPLICATION INFO.:	US 2005-663303	A1	20050921 (11)
	WO 2005-JP17363		20050921
			20080513 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2004-274454	20040922
	JP 2004-376562	20041227
	JP 2005-194428	20050701
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	831	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition for the prevention or alleviation of pigmentation which can produce the higher effect of preventing or alleviating pigmentation. The composition for the prevention or alleviation of pigmentation comprises a combination of (A) at least one member selected from the group consisting of adenosine 5'-monophosphate and salts thereof with (B) at least one member selected from the group consisting of arbutin, ellagic acid, 4-alkylresorcinols, linoleic acid, tranexamic acid, salts of these, Chamomilla recuita extract, and Ubiquinone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD . . . for preventing or improving skin pigmentation can prevent or improve pigmentation of the skin, and therefore is useful as a skin-lightening composition, skin anti-aging composition, skin-dullness improving composition, or melasma improving composition.

DETD . . . as a cosmetic method. The method can effectively prevent or improve pigmentation of the skin, and therefore is useful as skin-lightening methods, skin anti-aging methods, skin-dullness improving methods, or melasma improving methods.

DETD . . . of the invention is useful as a cosmetics and externally-applied preparation for the skin (pharmaceutical composition) for the purpose of skin-lightening, skin anti-aging, reduction of skin dullness, and amelioration of melanoma.

IT 60-33-3, Linoleic acid, biological studies 61-19-8, Adenosine 5'-monophosphate, biological studies 108-46-3D, Resorcinol, alkyl derivs. 303-98-0, Coenzyme Q10 476-66-4, Ellagic acid 497-76-7, Arbutin 1197-18-8, Tranexamic acid
(cosmetic and drug composition for prevention or alleviation of skin pigmentation)

L13 ANSWER 10 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2006:215552 USPATFULL
TITLE: Topical Delivery of Trace Metals for Enzyme Modulation
INVENTOR(S): Gupta, Shyam K., BIODERM RESEARCH, 5221 E. Windrose Drive, Scottsdale, AZ, UNITED STATES 85254
PATENT ASSIGNEE(S): BIODERM RESEARCH, Scottsdale, AZ, UNITED STATES (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 20060183708	Al	20060817
APPLICATION INFO.:	US 2006-308290	Al	20060315 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2002-306948, filed on 29 Nov 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	SHYAM K. GUPTA, BIODERM RESEARCH, 5221 E. WINDROSE DRIVE, SCOTTSDALE, AZ, 85254, US		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Page(s)		
LINE COUNT:	1266		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method for topical delivery of trace metals for the modulation of certain metalloenzymes. The method of topical delivery of the present invention comprises; (i) mixing of a trace metal salt of a phosphorylated nitrogen heterocyclic base complexed with a chelating agent [FIG. 1], and (ii) a carrier, and (iii) topical application of said mixture. The modulation of metalloenzymes such as Superoxide Dismutase, Elastase, Tyrosinase, Matrix metalloproteases, and Ubiquitin-Proteasome pathway by the methods of the present invention is useful for providing anti-inflammatory, skin whitening, wrinkles reduction, skin aging control, cellular antioxidant, acne control, hair growth modulation, and skin damage control benefits.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB . . . Dismutase, Elastase, Tyrosinase, Matrix metalloproteases, and Ubiquitin-Proteasome pathway by the methods of the present invention is useful for providing anti-inflammatory, skin whitening , wrinkles reduction, skin aging control, cellular antioxidant, acne control, hair growth modulation, and skin damage control benefits.

SUMM . . . Dismutase, Elastase, Tyrosinase, Matrix metalloproteases, and Ubiquitin-Proteasome pathway by the method of the present invention is useful for providing anti-inflammatory, skin whitening , wrinkles reduction, skin aging control, cellular antioxidant, acne control, hair growth modulation, and skin damage control benefits.

SUMM . . . applications in areas that require their enhanced bioavailability into deeper layers of skin, for example anti-aging, collagen synthesis enhancement, and skin whitening. Superoxide dismutase itself has been used in topical applications for antiaging compositions. However, the molecular weight of this enzyme is.

SUMM . . . Advanced Glycation End Products (AGES). The modulation of such enzyme functions now provides topical skin care benefits such as antiaging, skin whitening, acne control, skin condition improvement, collagen promotion, wrinkles reduction, hair growth modulation, and intra-cellular antioxidant via a single trace metals. . . .

IT 54-47-7, Pyridoxal-5-phosphate 56-65-5, Adenosine triphosphate, biological studies 56-81-5, Glycerin, biological studies 58-64-0, Adenosine diphosphate, biological studies 59-43-8D, Vitamin B1, phosphorylated derivs. 60-00-4, EDTA, biological studies 61-19-8, Adenosine monophosphate, biological studies 64-17-5, Alcohol, biological studies 65-86-1, Orotic acid 70-18-8, Glutathione, biological studies 77-92-9, Citric acid, biological studies 98-98-6, Picolinic acid 107-21-1, 1,2-Ethandiol, biological studies 111-90-0 526-95-4, D-Gluconic acid 532-40-1, Thiamine phosphate 2163-42-0, Methylpropanediol 22457-89-2, Benfotiamine 25322-68-3, Polyethylene glycol 25618-55-7, Polyglycerol 59113-36-9, Diglycerol

(topical delivery of trace metals for enzyme modulation)

L13 ANSWER 11 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2006:46418 USPATFULL
TITLE: Cosmetic or pharmaceutical composition for skin care
INVENTOR(S): Gupta, Shyam K., Scottsdale, AZ, UNITED STATES
Hoyt, Edward G., Fountain Hills, AZ, UNITED STATES
PATENT ASSIGNEE(S): Infinity2 Health Sciences, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060039887	A1	20060223
APPLICATION INFO.:	US 2005-208306	A1	20050818 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-603477P	20040820 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THORPE NORTH & WESTERN, LLP., 8180 SOUTH 700 EAST, SUITE 200, SANDY, UT, 84070, US	
NUMBER OF CLAIMS:	65	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1288	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a cosmetic or pharmaceutical composition to reduce skin damage caused by aging and/or the environment. The composition can include a genus Centipeda plant extract, a trace metal source in a skin absorbing form in an amount effective for activating or enhancing superoxide dismutase enzyme, and a carrier suitable for topical administration. The compound may alternatively include a genus Centipeda plant extract and a low molecular weight transporter and an ion-pair delivery system including a donating composition and an accepting composition, wherein the donating composition and the accepting composition are combined to form a bound ion-pair, and a carrier suitable for topical administration.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD . . . ingredients that can be used include oil-soluble skin beneficial ingredients; water-soluble skin beneficial ingredients; hydroquinone, arbutin, hydroquinone derivatives and other skin whitening agents; dimethylaminoethanol (DMEA), alpha-lipoic acid, coenzyme Q10 (ubiquinone), carnosine, and other anti-wrinkle and anti-aging agents; vitamin C; vitamin E; water-soluble. . .

IT 53-84-9, Nicotinamide adenine dinucleotide 56-65-5, Adenosine triphosphate, biological studies 56-65-5D, Adenosine Triphosphate, reaction with copper and glutathione 56-73-5, Glucose-6-phosphate 58-64-0, ADP, biological studies 58-68-4, NADH 59-56-3 61-19-8, Adenosine monophosphate, biological studies 70-18-8D, Glutathione, reaction with ATP and copper 85-32-5, Guanosine monophosphate 86-04-4, Inosine diphosphate 131-99-7, 5'-Inosinic acid 146-14-5, Flavin adenine dinucleotide 146-91-8, Guanosine diphosphate 488-69-7, Fructose-1,6-diphosphate 527-09-3 643-13-0, Fructose-6-phosphate 987-78-0, Citicholine 4468-02-4, Zinc Gluconate 6485-39-8, Manganese Gluconate 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological studies 7440-50-8D, Copper, reaction with ATP and glutathione 7440-66-6, Zinc, biological studies 10139-18-1 15978-08-2, Fructose-1-phosphate 60880-81-1, Sucrose phosphate (cosmetic or pharmaceutical comps. for skin care)

L13 ANSWER 12 OF 13 USPATFULL on STN
ACCESSION NUMBER: 2005:255579 USPATFULL

TITLE: Composition for cell proliferation
 INVENTOR(S): Kawamura, Mitsuaki, Kyoto-shi, JAPAN
 Shinohara, Shigeo, Kyoto-shi, JAPAN
 PATENT ASSIGNEE(S): OTSUKA PHARMACEUTICAL CO., LTD., Tokyo, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20050222076	A1	20051006
APPLICATION INFO.:	US 2003-510738	A1	20030403 (10)
	WO 2003-JP4247		20030403
			20041012 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-106300	20020409
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US	
NUMBER OF CLAIMS:	38	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	906	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method for effectively exerting a cell proliferation promoting effect of a purine nucleic acid-related substance. The present invention provides a composition for cell proliferation containing a purine nucleic acid-related substance and a pyrimidine nucleic acid-related substance. Further, the present invention provides a method for potentiating the cell proliferation promoting effect of the purine nucleic acid-related substance by using the purine nucleic acid-related substance in combination with the pyrimidine nucleic acid-related substance. Still further, the present invention provides a method for promoting cell proliferation, where the method comprising applying purine nucleic acid-related substance in combination with the pyrimidine nucleic acid-related substance to the skin or mucosa.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . of Items 1 to 8 that is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail beautifying, and wound healing.

Item 10. A composition for cell proliferation according to . . . of Items 1 to 8 that is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

Item 11. A composition for cell proliferation according to . . .

SUMM . . . 17 to 21, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail beautifying, and wound healing.

Item 23. A method for potentiating a cell. . . 17 to 21, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

Item 24. A method for potentiating a cell proliferation. . .

SUMM . . . 25 to 34, wherein the composition is used for a purpose

selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail beautifying, and wound healing.

Item 36. A method for promoting cell proliferation. . . 25 to 34, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

Item 37. A method for promoting cell proliferation according. . .
DETD . . . can be used as a cosmetic or an externally-applied medical or quasi-medical drug for the purpose of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, and wound healing. Preferable among these are a wide variety of externally-applied medical agents for the purpose of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, nail beautifying, and wound healing. In particular, the composition of the present invention can effectively. . .

DETD . . . the method of the present invention is used for preparing a composition that exhibits the effects of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, wound healing, etc. due to the cell proliferation promoting effect of a. . . method of the present invention and exhibit the above-described effects are those that exhibit the effects of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, nail beautifying, wound healing, etc. Particularly preferable is a composition that exhibits an anti-wrinkle effect. . .

DETD . . . promote cell proliferation. Accordingly, the method of the present invention can be used for the purpose of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, wound healing, etc. Preferably, the method of the invention is used for the purposes of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, nail beautifying, wound healing, etc. In particular, the method of the present invention is useful. . .

DETD . . . useful for cosmetics and external preparations for the skin (medical and quasi-medical drugs) that are effective for anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, wound healing, etc.

DETD . . . cell proliferation promoting effects with a small amount of the purine nucleic acid-related substance, and exhibits excellent anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, wound healing effects, etc.

DETD . . . the method for promoting cell proliferation, cell proliferation can be effectively promoted, and thus the effects of anti-aging, moisturizing, anti-acne, skin whitening, anti-wrinkle, anti-sagging, anti-dullness, hair growth, anti-dandruff, nail beautifying, wound healing, etc. can be provided to the skin and mucosa.

CLM What is claimed is:

. . . proliferation according to claim 1 that is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail

beautifying, and wound healing.

CLM What is claimed is:

- . . . proliferation according to claim 1 that is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

CLM What is claimed is:

- . . . to claim 15, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail beautifying, and wound healing.

CLM What is claimed is:

- . . . to claim 15, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

CLM What is claimed is:

- . . . to claim 22, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, anti-dandruff, nail beautifying, and wound healing.

CLM What is claimed is:

- . . . to claim 22, wherein the composition is used for a purpose selected from the group consisting of anti-aging, moisturizing, anti-acne, skin whitening, anti-sagging, anti-dullness, anti-wrinkle, hair growth, nail beautifying, and wound healing.

IT 58-61-7, Adenosine, biological studies 58-63-9, Inosine 58-96-8, Uridine 58-97-9, Uridine phosphate, biological studies 61-19-8, Adenosine phosphate, biological studies 66-22-8, Uracil, biological studies 68-94-0, Hypoxanthine 73-24-5, Adenine, biological studies 131-99-7, Inosinic acid 951-78-0, Deoxyuridine 964-26-1
(composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)

L13 ANSWER 13 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2004:138722 USPATFULL

TITLE: Trace Metals synergized copper nucleotides and copper glycosides for anti-aging and antiviral compositions
INVENTOR(S): Gupta, Shyam K., Scottsdale, AZ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20040105894	A1	20040603
APPLICATION INFO.:	US 2002-306948	A1	20021129 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	SHYAM K. GUPTA, BIODERM RESEARCH, 5221 E. WINDROSE DRIVE, SCOTTSDALE, AZ, 85254		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	1277		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB I have discovered that trace metals such as copper, zinc, iron, and manganese that are necessary for the proper functioning of superoxide dismutase (SOD) and other deactivators of active-oxygen molecules (which cause aging of skin and other skin disorders), can be delivered from the topical compositions. This is achieved by the preparation of copper and other trace metal complexes with phosphorylated nucleosides, such as nucleotides, and phosphorylated monosaccharides, such as phosphorylated glycosides which act as small molecular weight (SMW) transporter molecules. These trace metal complexes of nucleotides and glycosides can be prepared by an in-situ method in water, water-miscible organic solvent, or a mixture of water and water-miscible organic solvent from commonly available ingredients in concentrations that are desirable and can be accurately controlled. I have additionally discovered compositions to achieve the transport of copper from the surface layers of skin into the deeper layers of skin utilizing SMW transporter molecules; and the intra-cellular storage of copper ions in the cell, for example in a bound form with glutathione; and the intra-cellular transport of copper from glutathione to SOD apoprotein by metallochaperones; and the supply of energetic molecules, such as ATP, ADP, or phosphorylated saccharides for SOD metallochaperones to perform their intra-cellular metal transfer function. These cosmetic or pharmaceutical compositions are useful for antiaging and antiviral benefits.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . applications in areas that require their enhanced bioavailability into deeper layers of skin, for example anti-aging, collagen synthesis enhancement, and skin whitening. Superoxide dismutase itself has been used in topical applications for antiaging products. However, the molecular weight of this enzyme is. .

DETD .
oil-soluble skin beneficial ingredients; water-soluble skin beneficial ingredients; hydroquinone, arbutin, hydroquinone derivatives and other skin whitening agents; dimethylaminoethanol (DMEA), alpha-lipoic acid, coenzyme Q10 (ubiquinone), carnosine, and other anti-wrinkle and anti-aging agents; vitamin C; vitamin E; water-soluble.

IT 53-84-9, NAD 56-65-5, ATP, biological studies 56-73-5, Glucose 6-phosphate 58-64-0, ADP, biological studies 58-68-4, NADH 59-56-3 61-19-8, AMP, biological studies 70-18-8, Glutathione, biological studies 85-32-5, Guanylic acid 86-04-4, Inosine diphosphate 98-98-6D, Picolinic acid, reaction with copper 131-99-7, Inosinic acid 142-71-2, Copper acetate 146-14-5, FAD 146-91-8, Guanosine diphosphate 328-50-7D, reaction with copper, manganese and zinc 488-69-7, Fructose 1,6-diphosphate 527-09-3, Copper gluconate 546-46-3, Zinc citrate 551-64-4 557-09-5, Zinc caprylate 557-34-6, Zinc acetate 616-91-1, N-Acetylcysteine 637-82-1, Manganese succinate 643-13-0, Fructose 6-phosphate 987-78-0, Citicholine 1300-26-1, Zinc glycerophosphate 1320-46-3, Manganese glycerophosphate 2180-18-9, Manganese acetate 2847-05-4, Zinc malate 3251-23-8 3890-89-9, Copper caprylate 4468-02-4, Zinc gluconate 6228-53-1, Zinc succinate 6485-39-8, Manganese gluconate 6819-13-2, Manganese caprylate 7268-91-9, Copper succinate 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 7447-39-4, Copper chloride (CuCl₂), biological studies 7646-85-7, Zinc chloride, biological studies 7733-02-0, Zinc sulfate 7758-98-7, Copper sulfate, biological studies 7779-88-6, Zinc nitrate 7785-87-7, Manganese sulfate 10024-66-5, Manganese citrate 10139-18-1, Glucose 1,6-diphosphate 10377-66-9, Manganese nitrate 10402-15-0, Copper citrate 11132-78-8, Manganese chloride

12040-65-2D, Glycerophosphate, reaction with copper 13479-54-4, Copper
glycinate 13870-80-9, Copper histidinate 13870-82-1 13985-65-4,
Copper methioninate 14049-88-8 14281-77-7 14281-83-5, Zinc
glycinate 14998-36-8, Manganese tartrate 15158-11-9D, Copper II,
complexes with amino acids or peptides or nucleotides or proteins
15628-81-6 15978-08-2, Fructose 1-phosphate 16039-52-4, Copper
lactate 16039-53-5, Zinc lactate 16283-36-6, Zinc salicylate
16351-10-3, Manganese ascorbate 16397-91-4D, Manganese II, complexes
with amino acids or peptides or nucleotides or proteins 16743-16-1,
Zinc histidinate 16827-84-2 17263-55-7, Copper malate 17949-65-4,
Zincpicolinate 18917-85-6 20936-31-6, Copper salicylate 21512-99-2
21676-62-0 23333-98-4, Zinc lysinate 23713-49-7D, Zinc II, complexes
with amino acids or peptides or nucleotides or proteins 24640-31-1
24887-16-9, Zinc pyruvate 27004-40-6, Copper tartrate 28029-54-1
30827-46-4 33010-91-2, Copper fumarate 34992-53-5 36015-31-3
36393-20-1, Zinc aspartate 40816-51-1 51877-53-3, Manganese lactate
51914-60-4, Zinc nicotinate 52723-61-2, Zinc fumarate 59866-25-0
59949-07-4 60880-81-1, Sucrose phosphate 61024-52-0 81876-67-7
81899-04-9 83455-26-9 84493-88-9 85169-07-9 112983-87-6
145482-34-4, Manganese pyruvate 151728-40-4, Zinc ascorbate
173364-38-0 173521-41-0
(trace metals synergized copper nucleotides and copper glycosides for
anti-aging and antiviral compns.)

=> END

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

SINE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

232.50	292.79
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-22.14	-22.14
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STN INTERNATIONAL LOGOFF AT 11:55:49 ON 05 MAY 2009